

Farm & Ranch

R E V I E W

June ❖ 1950

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CANADA PRODUCES SEED POTATOES FOR ALL THE WORLD



As the world's chief source of supply for seed potatoes, Canada ships millions of quality certified seed potatoes each year to replenish the world crops of one of mankind's most essential foods.

Why Seagram's sells Canada first

This advertisement is an adaptation of one of a series created by The House of Seagram to tell the peoples of other lands about Canada and her various products. For the past two years this campaign has been appearing in newspapers and magazines printed in many languages and circulated throughout the world.

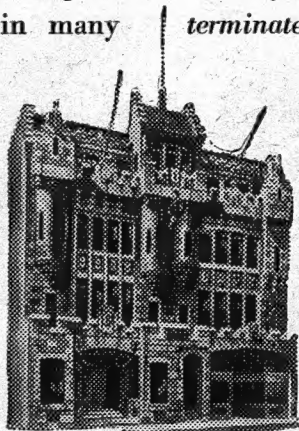
Our prosperity is based on our ability to sell our products to other countries. Every Canadian has a personal stake in foreign trade, for one out of every three dollars of Canada's national income results from our trade abroad. The more

that the peoples of other countries know of the quality, variety and prestige of our products, the more likely they are to buy from us.

❖ ❖ ❖

We feel that the horizon of industry does not terminate at the boundary line of its plants; it has a

broader horizon, a farther view—this view embraces the entire Dominion. That is why The House of Seagram believes that it is in the interest of every Canadian manufacturer to help the sale of all Canadian products in foreign markets. It is in this spirit that these advertisements are being published throughout the world.

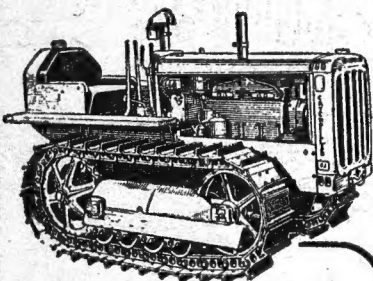


The House of Seagram

THE CATERPILLAR

Diesel **D2**
TRACTOR
Gives You
MORE

Work Power



**Available for
Immediate
Delivery**

32 Drawbar H.P.

38 Belt H.P.

**Does Your Work
Faster and Cheaper**

You get power, traction, economy with a CATERPILLAR D2. Powerful, economical "Caterpillar" Diesel Engines with five forward speeds and one reverse give you a range that assures efficient performance on any job. Plowing, discing, cultivating, harvesting are done faster and at lower cost per acre and per day. Broad planklike tracks assure pulling power through soft places and getting work done that would otherwise be delayed. They are built for the tough jobs today's tractors must handle.

For greater performance in the field hook up a CATERPILLAR D2. Get the facts today.

MAIL THIS COUPON
UNION TRACTOR & EQUIPMENT
CO. LTD.,
830-9th Ave. W., Calgary, Alta.
DEPT. FRR-60
Please send me complete information
about the new Caterpillar D2 Diesel
Tractor.

Name _____
Address _____

**UNION TRACTOR
AND EQUIPMENT CO. LTD.**

Calgary Lethbridge Edmonton Grande Prairie

Stampede star



Slim Pickens, the cowboy clown, will be back for the Stampede again this year doing stunts like this in front of the Grandstand.

THE FARM & RANCH REVIEW

GRAPHIC ARTS BLDG., CALGARY, ALTA.

Vol. XLVI

Founded in 1905 by
CHAS. W. PETERSON

No. 6

James H. Gray,
Editor

Martha Olson,
Home Editor

P. Peterson,
Advertising Manager

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EASTERN ADVERTISING OFFICES
414 Metropolitan Bldg.,
Toronto, Ont.

W. H. Peirce, Representative

SUBSCRIPTION RATES: To bona-fide
farmers residing in B.C., Alta., Sask.
and Manitoba when remittance is made
direct to our office — 25c for 2 years
or 50c for 5 years. Elsewhere in
Canada, \$1.00 for 1 year. U.S.A. and
foreign \$1.00 for 1 year.

DISPLAY ADVERTISING RATE:
Seventy cents per agate line.
16

Prize picture



Miss Audrey Burton, Eden, Man.,
snapped this picture of her father
getting familiar with a hungry look-
ing black bear.

Lesson in economics

A recession is a period in
which you tighten your belt.

A depression is a time when
you have no belt to tighten.

When you have no pants to
hold up, it's a panic.

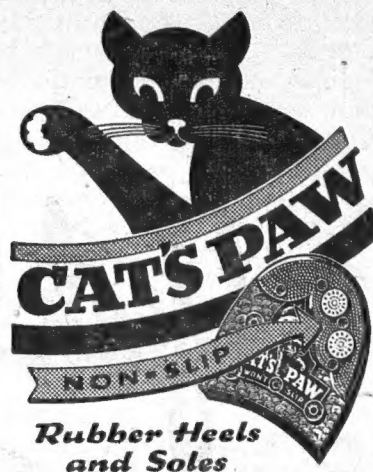
(From the Wheat Pool Budget)

• • •
• There are two great
rules of life, the one gen-
eral and the other particu-
lar. The first is that ev-
eryone can, in the end, get
what he wants if he only
tries. This is the general
rule. The particular rule
is that every individual is,
more or less, an exception
to the rule.

—Samuel Butler.

• • •
• The sparrow flying be-
hind the hawk thinks the
hawk is fleeing.

—Oriental Proverb.



The only horse that
doesn't need



Absorbine now and then

• Absorbine is especially helpful in re-
lieving windgall, curb, thoroughpin . . .
puffs, strains and bruises. A stand-by for
50 years . . . Absorbine is used by many
veterinarians. Does not blister or remove
hair. At all druggists . . . only \$2.50 for
a LONG-LASTING BOTTLE.

W. F. Young, Inc., Lyman House, Montreal.

ABSORBINE



CHOOSE LONITE

One of many designs in nationally ap-
proved and guaranteed LONITE—each a
proud tribute of everlasting
beauty and distinction.



MAIL THIS COUPON

LO'S STONE WORKS LIMITED
Box 806, NORWOOD P.O., WINNIPEG, MAN.

Please send me without obligation, your
Memorial Booklets.

NAME _____

ADDRESS _____

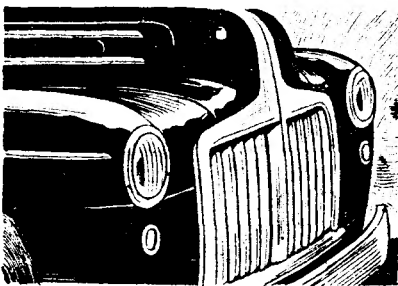
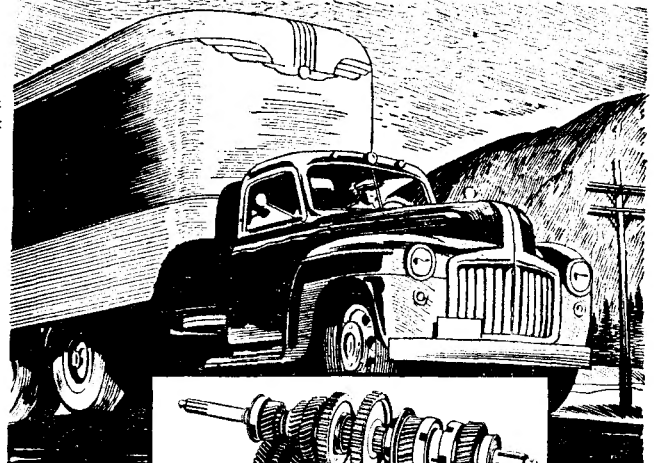
LO'S STONE WORKS LTD.
GRANITE MARBLE LONITE

Yeah!

Nickel's tough!



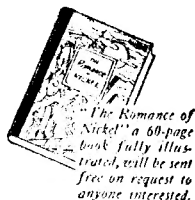
Tough job, trucking—and it takes tough equipment to stand up. That's why Nickel alloys are used for the gears and other important parts of trucks subject to severe shock and constant hard wear.



The gleaming grille and other parts of trucks and cars are Nickel-plated. Nickel has lasting beauty.

Exhaust pipes and mufflers are up against the problem of hot corrosive gases. These parts are being made of Nickel alloys to reduce costs in the long run.

Forty-three years of research have uncovered hundreds of uses for Nickel in the United States and other countries. Now Nickel exports bring in millions of U.S. dollars yearly. These dollars help pay the wages of the 14,000 Nickel employees in Canada and also help pay Canadian railwaymen, lumbermen, iron and steel workers and other men and women making supplies for the Nickel mines, smelters and refineries.



IN EVERY LIFE

Canadian Nickel



THE INTERNATIONAL NICKEL COMPANY OF CANADA, LIMITED, 25 KING STREET WEST, TORONTO

The Farm and Ranch Editorial Page...

Keep our gas in the ground until Canadians can use it!

IT didn't take long for those interests which seek to export Canada's natural gas to the United States to rush out into the open once the pipe line bills were through the House of Commons. A Calgary newspaper started the ball rolling with a front-page story to the effect that unless Alberta got into the U.S. market right away, gas reserves would be developed in Montana and the Pacific Coast market would be lost forever.

That is it exactly. Vancouver, the alleged terminal for these pipelines was just the lure on the hook. The real market is the Pacific northwest of the United States. Pious promises by promoters that Vancouver would be served can now be filed and forgotten. What will happen next is easily discernible. The Alberta Government and the Conservation Board will be subjected to terrific pressure to declare that Alberta's gas resources are sufficient to permit huge exports. If that declaration can be obtained, it will be used to pry a pipeline permit from the Transport Commission and a gas export permit from the Minister of Trade and Commerce.

It will be a dark day for the people of all Canada if these things should be allowed to come to pass. And they will unless there is an immediate awakening by the people of the prairies to this threat to their future.

As Mr. Gardiner said in his recent broadcast, which we have reproduced in part on page 8, the paramount need for prairie agriculture today is the development of an expanded home market. That can only be done by a tremendous industrial development west of the Great Lakes. Cheap power, from our great stores of natural gas, can create whole new industries out here, industries that will not only provide thousands of new jobs and new markets for our farm produce, but raise substantially our whole standard of living.

But all that will take time. It will take forbearance. It will take patience and above it all it will take a clear vision of the destiny that can belong to the West. Make no mistake about this: With hundreds of millions of dollars involved, every effort will be made to confuse and beguile us into selling our birthright for a mess of pottage. That campaign has already begun.

So long as any doubt remains about our intention, industry will hesitate about locating in the West. American industrialists will be prepared to wait 10 years to see if they can get out gas to Seattle. Yet there is one way to hasten our own industrialization. That is to decide once and for all that Canadian natural gas is to be used for Canadian development. **Let us make it plain that we are determined NOT to permit the export of our natural gas.**

This is the greatest issue that has ever faced the West. Let us react to it with such vigor and determination that our aims will

be achieved. This is something that can be fought on many fronts, and on an issue that can be kept crystal clear. The whole thing can be summed up in a single slogan:

"Keep our Canadian natural gas in the ground until Canadians can use it!"

Every farm organization, every Board of Trade, every municipal council on the prairies can help to win this battle. In Alberta, the campaign must be two-pronged. A counter-attack must be launched at once to strengthen the resolve of the Government and the Conservation Board. In addition, Alberta citizens must join with fellow Canadians in Saskatchewan, Manitoba and British Columbia to carry the battle into the decisive Federal field. Even if the struggle is lost in Alberta, it can still be won at Ottawa.

It is in Ottawa where the final decision must be made. As Mr. Gardiner points out, Ottawa has the say as to whether we export any kind of power or not under the Power Export Act of 1907. Because Canada had the wisdom in 1907 to take a stand firmly against the export of electric power, a great industrial basin was created in Ontario and Quebec. If 1907 history can be repeated now, in preventing the export of our gas power, it can be repeated again in the industrial development of the West.

This is not only an issue that transcends all others in importance to the producers of the West, it is one on which everyone in the West, regardless of where he lives or how he makes his living, can unite to speak with one thunderous voice.

The pipeline debate in the House of Commons at least served the purpose of awakening public opinion to the potentialities of the West and natural gas. It has brought home to the Government the depth of the conviction of the members from the West on this issue. Because the Alberta Social Credit members took no part in the discussion an impression may have been left that the people of Alberta don't care what happens to their natural gas. That must be dispelled quickly because, in plain truth, Alberta will be the main loser if export of natural gas from Canada is ever permitted.

Help the flood victims

EVEN with the most liberal aid coming from the governments, the losses that will be suffered by the people of Manitoba from the worst flood in a century will be terrific. These losses are far beyond the capacity of the people themselves to absorb. So it is heartening indeed to see the wholehearted and generous response all over Western Canada to the appeal of the Manitoba Flood Relief Fund.

Every organization of any consequence

anywhere on the Prairies has swung into action to contribute and raise money. It is being channeled into Winnipeg through a hundred different avenues. All the radio stations and newspapers are aiding in the collection. The Farm and Ranch was asked to start a fund from its readers and lend a hand in the collection. But by the time that our June issue comes out we know that the field will be completely blanketed.

Of course we will be only too pleased to send along any contribution to the fund our readers care to send us. But it seems to us that it would be much simpler for those readers who wish to contribute to send the money through their local weekly paper, the nearest radio station, or directly to the Manitoba Flood Relief Fund, Great West Life Building, Winnipeg.

Of this there can be no mistake, even if the fund is generously oversubscribed, it will still not begin to cover the losses and misery of so many thousands of our neighbors. That's something to be remembered when we are thinking about giving.

Mr. Coyne talks sense

READERS of the Farm and Ranch are of course aware of the emphasis we have been placing on the need for Canadians to finance the development of their own resources and their own country. Perhaps they will be interested in the fact that this idea is now percolating in the high policy level at Ottawa.

Mr. J. E. Coyne, the deputy governor of the Bank of Canada, in a speech to the Canadian Life Insurance Officers' Association, recently did some most useful embroidery on the same theme.

In the last four years, Mr. Coyne pointed out, thrifty Canadians have saved a total of \$3 billions. And they are adding to that pile at the rate of \$400,000,000 a year. That money, together with surpluses accumulated by Canadian corporations, would have been sufficient to pay for the whole development programme Canada has gone through. That didn't happen. While Canadians were putting their money into banks, insurance policies, bonds, mortgages, and other allegedly "safe" investments, foreigners were pumping money into Canada to invest in productive enterprise.

Canada's resources are going to be developed, if not by Canadians then by outsiders. The tragedy is that Canadians are not doing it and the outsiders are. The capital increment that will result from the development of our resources will be forever lost to Canada. It will go to enrich the countries from which the money comes. Today, one-half of all the dividends paid by Canadian corporations go to people outside the country.

What's the answer? Mr. Coyne suggested one. He urged the banks and insurance companies, who hold 60 per cent of the savings of the Canadian people, to transmute a greater proportion of these savings into productive investment. It is sound advice, perhaps the soundest that can be given.

Security-mindedness has crept through our whole society like an influenza virus. Losses resulting from the 1929 speculative

(Continued on page 6)

Farm and Ranch Editorials

The lessons to be learned from the Manitoba floods

TO blame the floods in Manitoba and their attendant misery on the existence of the Coalition Government would be downright stupid. There would have been widespread flooding and misery beyond description in Manitoba this year regardless of what kind of government was in power. The fact, however, cannot excuse the bumbling ineptitude of the Manitoba Government in handling of this crisis once it developed. And that can be laid directly at the door of coalition.

When any political party in power is faced with an alertly vigorous opposition it is forever on the alert to prevent that opposition from developing issues that will cost it an election. This alertness keeps cabinet ministers on their toes, produces greater efficiency in the operation of their departments. Where there is no effective opposition, nobody is alerted and an overwhelming torpor settles over an administration.

Others, even editors as far away as Montreal, watched developments at Emerson and below the boundary and got thoroughly alarmed. But the Manitoba Government didn't get alarmed. Nor, it seems, did anybody in Winnipeg except the poor people living in low lying areas. While the worst disaster in Manitoba history was abuilding, one Winnipeg newspaper took time out to chastise a Quebec paper for publishing an alarmist story. It proceeded to play the whole thing down.

Thus no attempt was made in Manitoba to put flood fighting on an emergency and organized basis until disaster had struck. When it did strike, the flood fighters found that no sand bags were available! So at the height of the crisis bags, which even moderate foresight would have been provided by the hundreds of thousands, had to be flown in quickly from Vancouver, Calgary and Minneapolis!

Instead of a state of emergency being proclaimed when Emerson took the first shock while waters were still rising in Minnesota and North Dakota, the people were largely left to their own devices. Whole armies of volunteers worked desperately for long hours to try to save their property and pos-

sessions, to try to contain the flood. But work was not enough. What was needed was expert direction, advice and material flood fighting aid. But the government lulled into a false sense of security by the 1948 experience, gave the people reassuring statements instead.

Hind-sight is always better than foresight. It is easy to be wise after the event. We don't say that the Red River flood could have been alleviated by anything which the Government might have done. Perhaps, with a completely organized effort, all the land that was flooded would still have been flooded. But what could have been avoided was needless misery if the Government of Manitoba had given the people of Manitoba the kind of leadership which they are entitled to get in times of crisis.

If a Government, with all its high-powered technical experts cannot do any better than the poorest informed and shortest sighted citizen, what is its excuse for existence? And can any Government, which demonstrated such ineptitude in dealing with a physical disaster of historic import, be logically expected to show the kind of leadership, imagination and determination that is required to develop long range plans for the prevention of a recurrence of the 1950 disaster? To ask the question is to answer it. What the people of Manitoba should realize by now is that it is the form of their government that makes inept administration inevitable.

Protecting our good institutions

THE amendments to the Prairie Farm Assistance Act recently introduced are all to the good. No objection was raised of course to the shape of areas that would be eligible for crop failure bonuses. But plenty of objection was voiced against the amendment which will remove land leased by any government, whether Dominion, provincial or municipal, from eligibility for P.F.A.A. payments.

Taken together, the P.F.R.A. and the P.F.A.A. represent a great national attack on the misuse of lands on the prairies. Behind them was a genuine effort on the part of everybody concerned to recognize age-old mistakes in land settlement, to remove sub-marginal pasture land from cultivation as grain farms, to resettle farmers from these marginal lands elsewhere on better land, to make it possible for those who remained to earn a decent living.

But as a result of errors of settlement, great areas of the prairies reverted to provincial and municipal governments. Because these governments realized that land cost was proving an impossible burden to farmers in the drouth belts, they devised leasing arrangements by which farmers could continue to farm and pay for their land use on a crop-share basis. In many areas, these leases enabled farmers to stay on the farm and make a living.

There is, however, another side of the picture. Regardless of whether the land was bought or leased, much of it should not have been cultivated. In recent years farmers have been moving into these areas, taking land and existing in large measure on the payments they got from P.F.A.A.

So on one hand, we have the Dominion Government spending many millions of dollars on transforming sub-marginal land into highly productive community pastures, in reshaping the economy of once beaten districts. On the other hand we have had provincial governments leasing similar land to farmers to perpetuate our historic mistakes.

Outweighing these considerations, however, is the need to protect our reputations. Since its inception, the P.F.A.A. has taken in \$25 millions in farmers' money and paid out \$145 millions in benefits. The difference has come from the taxpayers of Canada. In the face of these figures, we must understand that members of parliament from other sections are liable to become suspicious. Such measures as the P.F.A.A. are not enacted by an enthusiastic Parliament eager to help prairie farmers. Very often they obtain only grudging support and passive approval. They take these measures largely on trust, because they are assured that they really are necessary.

One way to discredit the whole administration is to allow even a hint of an impression that everything is not honest and above board. When one government pays out benefits to a farmer year after year without his ever having a crop, and the farmer uses the money, or part of it, to pay another government for rent of his land, what are the taxpayers to assume? That there is a racket here some place and that he is the goat!

P.F.A.A. has been the salvation for many a prairie farmer since its inception a decade ago. It can go on to a long life of usefulness. It is of too much value to Western farmers to allow its usefulness to be destroyed by having it touched by a breath of scandal. By taking action to tidy things up, the Dominion Government has done the right thing.

Trailers are treacherous

FROM the news reports that have been coming in too frequently this spring, it is apparent that our farmers have a new instrument of self-destruction. It is the overloaded trailer. Only recently two farmers were killed on an Alberta highway when a trailer full of machinery, attached to their passenger car, threw the car out of control.

When a trailer is being pulled by a car it builds up impetus. The brakes are applied in the car and this impetus forces the trailer against the coupling. It begins to wobble and sway from side to side. Greater pressure on the brakes will increase the careening and take the car out of control.

Because the car and trailer move with such ease until the brakes go on, it is natural for drivers to assume that everything is under control and it is perfectly safe to travel along at 45 or 50 miles an hour. It isn't, not if there is a heavy load in the trailer, or one that is not nicely balanced, or one that is not lashed securely in place. Treachery lurks in trailers and it can strike with fatal suddenness.

(Continued from page 5)

orgy and crash have made us all "security minded" when it comes to our money. We are as wrong today as we were in 1929. There is no real security in mortgages, life insurance, bonds or any other fixed income investment unless the enterprise behind it is a profitable one. If it is profitable, it will eventually pay off the bondholders and the owners of the business will own it clear. If it is not profitable, the bondholders and mortgage holders will lose their investments.

In a national way, Canada is now at a great crossroads. Canadians are providing huge sums of money to finance enterprise, but it is in the form of mortgages and bonds. But title to our natural resources, when they are fully developed, will belong to the common stock holders, to people living in some foreign land, who have more faith in the future of Canada than Canadians have.

Calgary will celebrate its 75th birthday at 1950 Stampede

FIREWORKS every night, bigger and more spectacular than ever will feature the 1950 edition of the Calgary Stampede. That, of course, plus the chuck wagon races, horse races, Indian parades, and rodeo events that will attract the continent's outstanding cowboy riders.

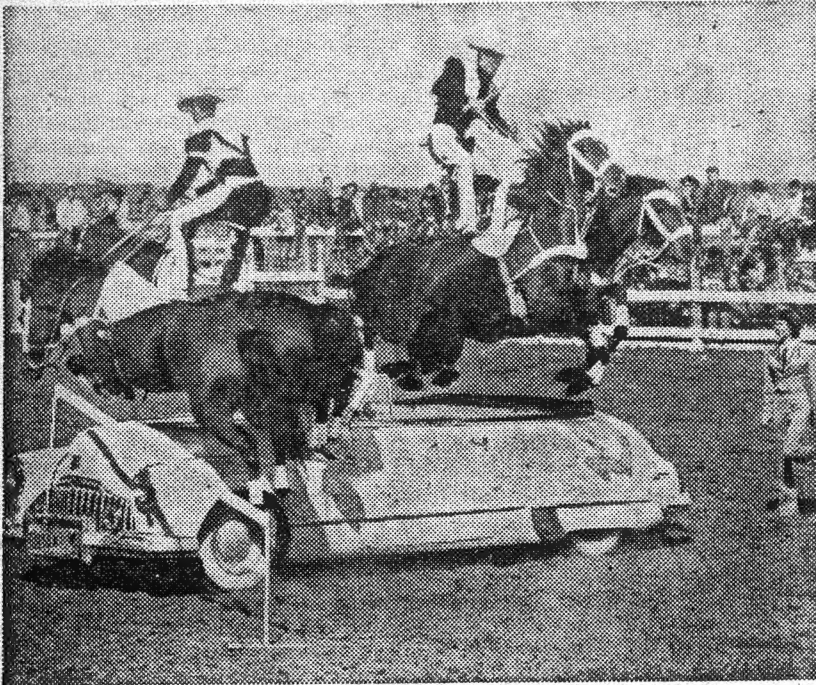
This being the 75th anniversary of the founding of Fort Calgary, this year's Exhibition and Stampede will likely break all previous attendance records. The City of Calgary is planning a wide variety of special events of its own to entertain visitors. Included will be square dancing contests in the streets, though at press time for this issue details had not been worked out.

are offered \$1,854 by the Exhibition.

There will again be a generous prize list for the ladies for their handiwork and cooking. Art exhibitions have also been arranged and special prizes will be awarded to boys and girls.

Visitors to this year's Stampede will see many changes and improvements to the grounds. The old main entrance to the grounds has been completely torn down and a new one, patterned after the old prairie stockades, has been constructed. The finishing touches will be made on the new hockey arena which has been under construction all winter.

During the spring a large



Here are the Hendricks twins who will be doing stunts like this in front of the Grandstand at the Calgary Stampede.

Slim Pickens, the cowboy clown from Fresno, Cal., will be back to entertain afternoon crowds between the horse races and rodeo events. In addition the Stampede is bringing in the Hendricks family, Ann, Byron and Lee from Los Angeles. They earn a living the hard way, by jumping teams of horses, standing up and bareback, over automobiles.

Once again the chuck wagon outfits will compete for a \$7,500 purse, and, as usual, they will race every night. The prize list for livestock exhibitors is again large and extensive. Heavy horse exhibitors will compete for \$5,906 in prizes, of which \$2,200 is offered by the Alberta Horse Breeders' Association.

The Exhibition will provide \$2,030 in prizes for each breed of cattle. To this the Shorthorn Association will add \$200; the Hereford Association \$1,325; the Aberdeen-Angus Association \$200. Prizes for dairy cattle will be a straight \$2,030 per breed.

Swine breeders will compete for \$1,658 and sheep breeders

number of trees along the Elbow River were removed to provide for additional parking space. Once again the accommodation bureau will be operating in front of the C.P.R. station and while a tight fit is expected, everyone is confident that rooms will be available for all the visitors to the Stampede.

"I Saw . . ."

Am enclosing an entry for your "I Saw" unusual occurrences.

One evening while in the barn milking, several roosters were inside by the door. The dog poked her head in and frightened them, one jumped straight up in the air and as it landed snapped one leg just above the first joint.

Mrs. Joe Bowd.
Treherne, Man.

The Farm and Ranch Review pays \$1 to observant readers who spot the unusual sights on the prairies and send them in to the Editor.

Get the most out of WEED CONTROL



You saw the results of weed control with Agricultural Weed-No-More last year! Bigger yields! Lower dockage costs! Excellent results even under adverse weather conditions! Now, this year, you can get the same superior weed control at less cost.

New product gives 27% more coverage

The new Weed-No-More "80" gives an average coverage of approximately 27% more acreage on small grains than the 1949 Weed-No-More.

Weed-No-More "80" Goes Farther Per Gallon

because it contains 80-ounces of 2,4-D acid. 60% more acid than last year.

Weed-No-More "80" costs less

to use than last year. In 1949 the cost of the product on an acid content basis was 22.6¢ per ounce. The new Weed-No-More "80" costs you only 12.2¢ per ounce of acid. The reduction in cost of acid amounts to 46%.

Kill Weeds in your Wheat

oats, barley, rye and flax with Weed-No-More "80". It penetrates quickly . . . rainfall minutes after application cannot wash it off. It acts fast . . . kills weeds more quickly than any other type of weed-killer. It's safe . . . used according to directions, it will not harm crops.

7,500 Test Plots used

To develop Weed-No-More "80", 33 separate formulations were tested on over 7,500 test plots. Over 100,000 individual plot readings were taken. Out of those tests came the outstanding weed-killing formulation—Weed-No-More "80".

The tests showed that the most effective weed-killer contained four ingredients—oil, coupler, emulsifier and ester. Any formulation that lacked any one of these ingredients

was found to be inferior. Each ingredient was tested, to be absolutely certain the most effective ingredients possible went into the formulation.

The Right Oil—in Weed-No-More "80" increases effectiveness without increasing danger of crop damage. It was the best of 200 oils tested.

The Right Coupler—in Weed-No-More "80" maintains formula in perfect condition irrespective of storage or date of purchase.

The Right Emulsifier—in Weed-No-More "80" ensures good emulsion stability. Gives fine uniform distribution and efficient coverage.

The Right Ester—The butyl ester of 2,4-D is the best solvent for the waxy coatings of weed leaves and is the least volatile of the common esters.



WEED-NO-MORE "80"

The Greatest Name in WEED KILLERS!



"I'm just on my way to the bank"



He is just one of the hundreds who during the day will drop into the branch bank around the corner.

Savings depositors with their pay cheques . . . retail merchants with the day's cash . . . people consulting the manager about loans, others cashing cheques . . . it is all part of the daily work of the branch bank.

In ten years the number of accounts maintained by bank depositors has grown from 5,000,000 to 8,000,000.

This shows how Canadians have come to count on their local banks for a great variety of services. The banks keep pace with the growing needs of the nation.

SPONSORED BY YOUR BANK

Western industrial development provide secure home markets

By
RT. HON. JAMES G. GARDINER,
Minister of Agriculture,
in a radio address on May 16.

IN recent years there has been a growing interest in the development of industry in the West. Those of us who live on the prairie have been turning our eyes westward in the hope that the Panama Canal and a developing Asia would result in a growing trade from twelve-month ports. This, together with power, timber and mineral resources, was expected to bring development of industry which would supply a market for prairie farms. The results we counted on from the opening of the Panama Canal have not yet materialized.

The thoughts of prairie people have been turned again to the Pacific by discussions of two Pipe Line Bills which came to an end with a vote last night.

After the war oil was located in central Alberta north, south, east and west of Edmonton. Gas is always associated with oil. This new discovery is reported to be one of the biggest oil deposits in the world. Those who have great investments elsewhere dependent upon continuous oil supply immediately began to think in terms of moving both gas and oil by pipe line from Alberta to where they are rather than moving industry to where the supply is.

Shortly after oil was proven to be present in great quantity the government introduced and Parliament passed a general Pipe Line Act which provided that any person or company wishing to transport oil or gas by pipe line must obtain a charter to do so by private bill. During the second session of 1949 and after the election a new parliament considered a Private Bill introduced by Mr. George Cruickshank, M.P. for Fraser River constituency in British Columbia, and a Bill was introduced to provide for the construction of a pipe line from the

oil fields to Superior in Wisconsin on Lake Superior. The first was to convey oil or gas to British Columbia, and the second to convey oil to Regina, Winnipeg, and finally to Sarnia by boat from Superior.

The discussion on these measures brought up the question as to whether authority should be given to pipe either gas or oil out of Canada. Two answers were given, both of which seemed sufficient. First it was pointed out that there is legislation provided as far back as 1907 which gives the government authority to control the export of oil and gas by pipe line or otherwise. Secondly, that it is provided in the Pipe Line Act of 1949 that the consent of the Transport Commission must be obtained before a pipe line can be built over any route. This was considered to be sufficient safeguard, and the Bills were passed.

Early in the session of 1950 two private bills were introduced to secure the right to construct pipe lines to carry gas from Alberta to British Columbia either by direct route or through the States to the south. It was claimed by some that the right to go by way of the States should be denied in these bills and by others that this should be left to the Board of Transport Commissioners. It has been very generally admitted that if this is the only question involved the matter could be quite properly and safely left to the Board of Transport Commissioners.

These are Private Bills and therefore a member even if a member of the government may vote as he sees fit. The Prime Minister stated that he personally was quite satisfied that the interests of the public were protected by the general legislation and he was quite prepared to vote for the bills. The bills came to a vote last evening, and carried on division. The long drawn-out discussions resulted in changing points of view. These changing points of view were not brought about through what is contained in the Private Bills. They were brought about through members from different provinces, giving thought to the future possibilities of the areas they represent. The Bills were finally passed on division when members were satisfied that general legislation had given the government control over corporations when they decided to attempt to proceed under Private Bills.

The Rafter's



Jim and Jean Seale flirt with wet feet as they raft around a spring pool. Mrs. Grace Seale, R.R. 3, Vermilion, won \$5 for this picture.

"I Saw . . ."

In the High River cemetery there is a tombstone with this inscription:

When I get the final summons
From the Courthouse in the skies,
And the Judge of all the Judges—
May deem it no surprise.

When I ask him just one favor,
He may grant it, no one knows,
Send me back to free Alberta,
Where the Highwood river flows.

Bill Pender,
Old-time Cowboy,
Died 1936

Blairmore, Alta. M. L. MacDonald.

The Farm and Ranch Review pays \$1 to observant readers who spot the unusual sights on the prairies and send them in to the Editor.

The discussion, therefore, turned toward bigger and more important matters. It is the whole question of the development of that section of Canada which extends from Fort William to the Pacific Ocean.

In the earlier stages of the discussion the members from British Columbia took sides on the Pipe Line Bills. Others, thinking it was a local difference, walked out of the House and left it to them. The Bills went to committee. Those interested followed the evidence carefully.

When the Bills came back from committee two of the younger members from the western area, both parliamentary assistants, stood up in the House and declared themselves on a much broader issue than the two Pipe Line Bills. On that issue they were agreed; namely, that the development of the area between Edmonton and Vancouver is of much greater importance than the welfare of any Pipe Line Companies. At the end one declared he would vote for the Pipe Line Bills, and the other declared he would vote against them. One believed there were sufficient safeguards, and the other felt a protest should be registered.

The next day a member from the centre of the Prairie area who intended to vote for the Bills indicated that the importance of the matter was beginning to overshadow the pipe line issue. He pointed out that there is no part of North America has paid more because it did not have oil and gas than the Prairie Provinces. He pointed out that this is the first chance to receive oil and gas from supplies within the area. He pointed out that Saskatchewan and Manitoba, as well as British Columbia, are interested in the development of industry based upon a prairie supply of oil and gas. He pointed out that he is prepared to rely upon the government to so act under authorities already existing as to secure and promote industrial development for the Prairie sections of the West as well as British Columbia.

These three men were Mr. Prudham, of Edmonton; Mr. Sinclair, of Vancouver; and Mr. Carl Stewart, of Yorkton. Their contention was later taken up on behalf of Saskatchewan members by Dr. McCusker, of Regina. They are all Liberals. They have given a lead to the discussion which will relegate the pipe lines to the obscure position they deserve and bring to the surface the biggest opportunity in Canada today: the Industrial Development of the West and East.

Natural gas cannot be exported from Canada unless a license is granted

by the Minister of Trade and Commerce under the Electricity and Fluid Exportation Act.

On three separate occasions the Right Honourable C. D. Howe has stated in the House of Commons that this Act is designated to protect Canadian consumers and that the present and foreseeable future needs of Canada will be protected before any exports of gas will be permitted. In this resolution the Minister of Trade and Commerce will have the support of all his colleagues. Liberals throughout Canada will join with the government in applying power from every source to the development of industry.

I make no apologies for discussing this in Agriculture's time. Our experiences have shown that there is only one market which is secure to Canadian agriculture, and that is the home market. It can only be made big and sufficient by developing industry in the extreme east and the extreme west. Canadians should dedicate the years ahead to the task.

The discussion of the Pipe Line Bills has forced to the front the fact that in the West there are wonderful industrial possibilities. It has renewed the dream of the prairie provinces that our agriculture can be made to flourish through the development of industry at the coast, along the foothills, and in the cities of the plains. It has renewed the hope that an industrial west can be connected with an industrial east by linking Canada's twelve-month ports with ships which will call at the great ports of the south.

"I Saw . . ."

One morning I started out on horseback to see how our cattle were. I had to cross a wooden creek bridge and as I approached I found the water level with it as the spring floods were starting. I road across finding the bridge rather shaky. I was a short distance away when I heard a loud "crack" and looking back I saw the bridge go down the stream.

Clayton Bruce.

Forestburg, Alta.

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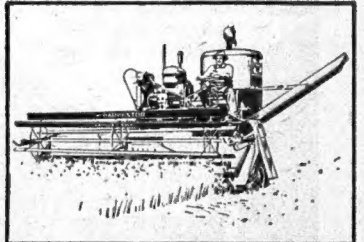


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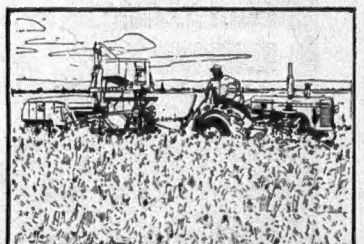
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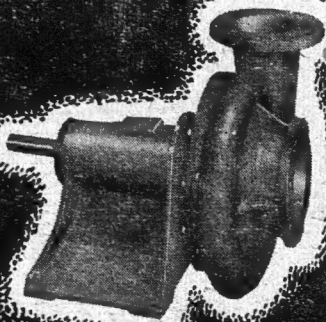
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Perennials in prairie gardens save time and money

By H. F. HARP

JUNE is the month when hardy perennials start to bloom in prairie gardens so that it is timely to consider them. A true herbaceous perennial plant is one that dies down completely in the fall and makes new growth from below ground level each spring. There is a fascination in growing these plants not found in any other phase of gardening, namely, watching for the welcome appearance of the new growth each year, and observing the various colours and forms of the first shoots affords delight to enthusiastic gardeners.

Bearing in mind that a Perennial border or bed is a permanent feature of the garden, no effort should be spared in selecting the right site and well preparing the ground. A background of shrubbery is ideal for showing off perennial flowers to the best advantage, but if space is limited a board fence clothed with vines makes a satisfactory substitute and in addition does not sap the soil moisture as a shrub background would. A caragana hedge forms a fairly good background but is exhausting of soil moisture and plant food. A distance of six feet should be allowed to separate perennials from shrubs or hedges.

Preparing the Soil

Deep digging in the fall, adding a good layer of barnyard manure is recommended. Spring preparation is best carried out as soon as the ground is sufficiently dry to work and substituting "Vigoro" or ammonium phosphate for the barnyard manure using one pound per hundred square feet of surface. It is best raked into the soil after digging.

Arrangement

Where large areas are available for growing perennials, good arrangements are achieved by making the border in sweeping curves rather than straight lines, the latter is more practical for small properties.

As a general rule the tall growing plants are set along the back and the medium tall ones in the centre. Dwarf kinds are used along the front edge. This rule should not be too strictly adhered to as an occasional tall plant may be set towards the centre of the border with telling effect.

Groups of three or five plants of one variety are more effective than single plants but only where space permits. In every case, Peonies are planted singly and at least three feet allowed around them. Flag Iris are useful and should occupy a space near the front of the border. Full sun suits them best. Siberian and Oriental Iris are more tolerant of shade and are useful for the furnishing of the

middle section. Bleeding Heart is early and very hardy. A sheltered spot should be chosen for them as they are easily damaged by wind. Phlox enjoy a cool, moist root run, and, wherever possible, water should be given in periods of dry weather. Where adequate moisture is available these plants are capable of giving a brilliant display.

Besides the plants already mentioned there are Delphiniums, Golden Glow, Michaelmas Daisies and many more kinds equally as reliable and interesting.

The attention of those wishing to establish a hardy flower border is directed to the publication, "Herbaceous Perennials for Canadian Gardens," by Miss Isabella Preston. Obtainable from Experimental Farms Service, Dept. of Agriculture, Ottawa, or your nearest Experimental Station.

General Care

Newly set borders should be regularly hoed to keep weeds in check and promote good growing conditions. Staking the tall growing varieties will be necessary and this should be done before the plants have reached their maximum height. For Delphiniums, that are extremely susceptible to damage by high winds, satisfactory stakes can be made by cutting into six-foot length pieces of 2" x 2" lumber. Three of these will adequately support a large plant.

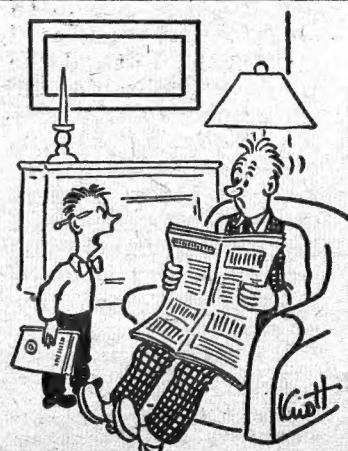
In dry weather the newly set plants should be soaked with water once a week or so. The plants are prepared for watering by making a shallow depression around each plant and filling it with water. Allow the water to seep down to the roots and replace the soil to prevent baking and cracking.

Propagation

Most perennials are easily increased by division. Early spring is the best time except for the Peonies, Irises and Lilies. These are replanted in mid-September with best results.

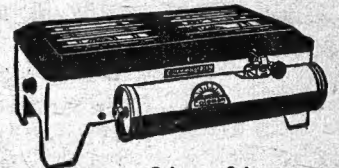
Plants to be divided should be carefully lifted, shaken free of

(Continued on page 11)



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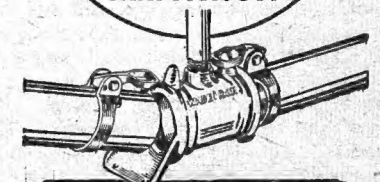
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excess soil and pulled apart. Each portion should have three or four strong shoots. Preserve the roots by avoiding the use of spade or knife in dividing plants. Peonies, however, have large, fleshy roots and often can only be split by using a knife.

Growing Perennials from Seed

Perennials may be easily raised by sowing seed and many interesting plants will result. May 15 to June 15 is generally considered the best time to plant seed to have plants large enough to set out in September.

Open ground sowings may be made where frame space is not available, though frame culture is more reliable. A frame four feet wide and as long as required can be easily made by nailing lengths of six-inch boards to pieces of 2" x 4" lumber driven into the ground.

The soil in the frame should be made fairly light by adding a little sand and peat if these materials are readily available.

Planting is best done in rows six inches apart sowing the seed very thinly. Large seeded varieties such as Delphiniums need half an inch of soil covering. Small seeds — Aquilegia, Canterbury Bells, etc., need to be barely covered.

Shade the frame from hot sun till germination takes place and water if needs be using a fine sprinkler. Germination is irregular and some varieties may lie in the ground over winter and grow the following spring. Delphinium seed must be fresh for best results. Home gathered seed keeps well in air-tight containers stored in a cool basement.

Seasonal Hints

Bedding plants and warm-weather vegetable crops, viz., tomatoes, peppers, egg-plant may be transplanted to their permanent quarters about June 7 - 10th. The prudent gardener, however, will be governed by the vagaries of the weather. No attempt should be made to set out tender plants till they have been "hardened off". Place the boxes in a position of full sun for several days before transplanting. Water the plants thoroughly a few hours before they are set out and also immediately they are planted. Do not cut out the individual plants in squares but rather pull them free with all the roots adhering to them.

If plants are properly "hardened off", planted firmly, and watered well they require no shading from sun and the eyesore of scattered tin cans, shingles, etc., can be avoided.

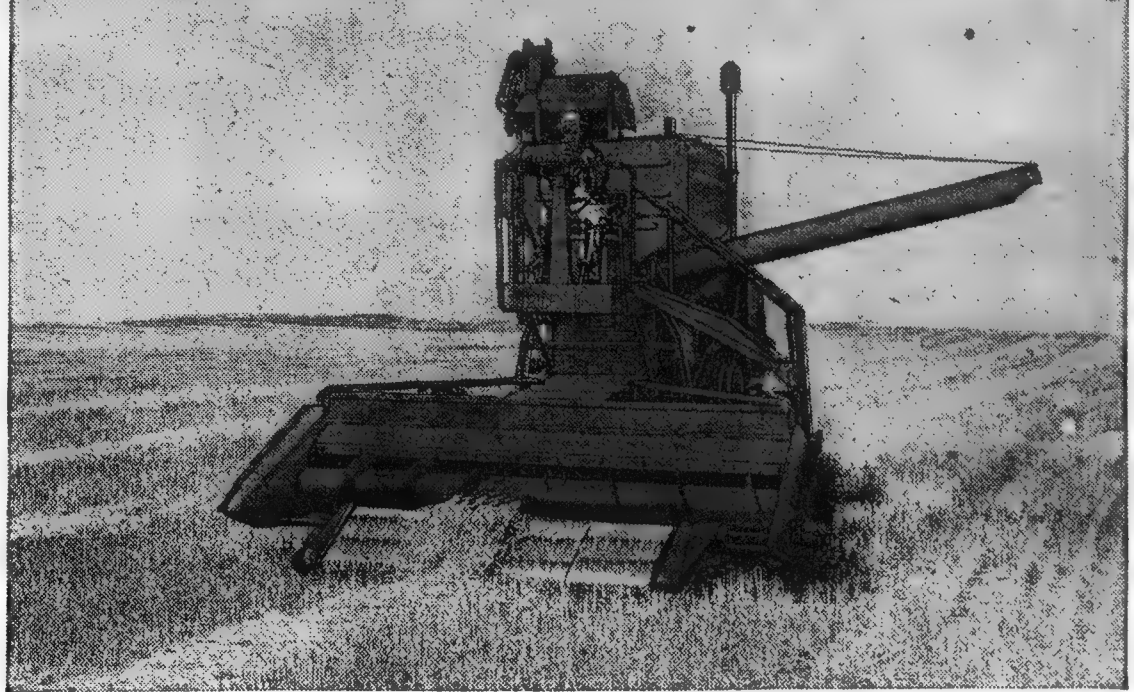
Impetuous Samuel

Sam had spirits naught could check,
And to-day, at breakfast, he
Broke his baby sister's neck,
So he shan't have jam for tea!

Col. D. Streamer.

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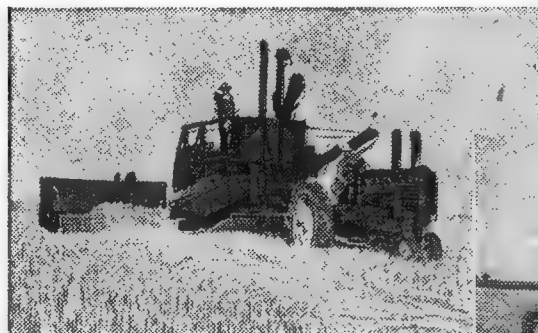
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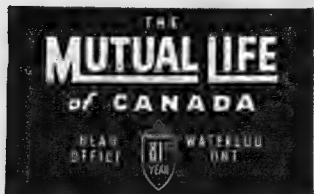
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Look, no hands!



Making a living the hard way appeals to Lee Hendricks, who with his twin brother, Byron, is a star attraction at the Calgary Stampede this year. Here he is taking a team of trick horses over a jump, standing up and without saddles or bridles.

Why are bluebirds so stupid and sparrows so smart?

By KERRY WOOD

ONE time it was necessary for me to cut a window opening in a lean-to, forcing me to move an occupied bird-box on the outside wall a distance of four feet. The bird house was kept on the same wall, facing the same direction, placed at the same height as before, but moved four feet south of its former location.

When the female bluebird came back to go on with the duty of incubating her eggs, she flew directly to the spot where her home used to be situated. She was quite startled when she did not find the box at that spot, uttering an alarm note that brought Pa Bluebird to her side in a hurry. Both birds chirped in great excitement, fluttering around in front of the new window opening and greatly distressed about not finding their box at that exact spot.

For nearly a quarter hour the bluebirds fussed and fretted and scolded about the missing nest, terribly upset because they could not find their house which was only four feet away. At last, Ma Bluebird chanced to alight on that box roof while seeking a perch, then she hopped down onto the perch in front of the entrance and poked her head through that hole and saw her eggs, ducking inside next second with a happy little warble. Their recent distress was quickly forgotten. Everything was happy again, with Pa Bluebird back on a sentinel perch on a nearby fence post and Ma setting on the eggs. They went ahead and successfully raised their family, but this little demonstration of not being able to find a house that

had been moved four feet makes one wonder:

How Smart is a Bird?

Some naturalists refuse to credit birds with intelligence, claiming that they are creatures of instinctive behavior only and that reasoning is unknown among them. Often we see evidence to support this view — such as the easy deception of Juncos who find a Cowbird's egg in their nest. The parasitic Cowbird's egg is double the size of the female Junco's eggs, yet the mother bird willingly accepts it as her own.

When the loutish Cowbird youngster hatches from the egg and dwarfs the legitimate young ones and callously claims the lion's share of the food, eventually pushing the starved Junco fledglings out of the nest to provide more room for itself, the parent Junco never seem to realize how they've been duped. Their own young, sprawled on the grass a few inches from their proper home now in sole possession of the Cowbird, feebly chirp for help and gape their beaks for food, but the Junco parents pass them by in their eager hurry to feed the loudly calling Cowbird. The young Juncos die of neglect and exposure, while the parent birds are quite oblivious of the tragedy forced on them by the parasitic Cowbird.

When we see a cat stalking across a lawn with evil intent showing in every feature, we wonder why a young Robin does not recognize its peril and flutter away. Year after year thousands of juvenile Robins are killed on lawns, and some of us are convinced that Young Master Robin is more than a

(Continued on page 13)

1950



... is the Aladdin's lamp of to-day

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(Continued from page 12)

little stupid about not avoiding such an obvious enemy as the green-eyed Puss.

However, there are other instances of birds solving unexpected problems in ways that suggest the use of reasoning powers. Consider the behavior of English or House Sparrows on forty below zero mornings in cities like Calgary, Edmonton, and Saskatoon. You'll see sparrows clustered around chimney top openings, warming themselves near the hot, escaping fumes from the furnace fires below.

This can't be called "inherited instinct" behavior, because it's something the bird has learned quite recently. Apparently Sparrows don't practise this habit in the milder climates of the Old Lands from whence we imported these pesky birds, and we've only had this breed in Western Canada a matter of fifty years. Is it reasoned behavior, or simply an expedient adaptability to environment?

Fun and Games

Crows are among the smartest birds we have — not only because they know rifle and shotgun ranges down to the last half-yard, either! When it comes to being wary of man, Magpies are even smarter than Crows. But Crows reveal their cleverness in many ways: even by their group games, because invented amusements require some brain-power.

We've all seen crows indulge in a Follow-the-leader sort of game, the Crow who is "It" carrying a piece of glass or a fragment of shiny metal, loudly pursued by the rest of the cawing flock until the leader finally drops the bright object. Another crow immediately snatches up the article and the whole group gleefully chase after this new "It" bird. At the end of half an hour, the object is discarded while the birds perch in some nearby trees and caw or "talk" over the fine points of the game. It's a form of entertainment, no question of that, and demonstrates mental abilities.

I remember Crow Intelligence once witnessed out at Victoria, B.C., when a workman or school child had lost a paper bag full of sandwiches on the pavement of Yates Street. I passed by a few minutes later and noticed a crow swoop down to look over the bag. A moment later the crow stuck his head inside and began pecking at the sandwiches. But before the crow could feast himself full, a large Herring Gull came cruising along the street and spotted the feasting Blackie. The gull alighted nearby and let out a raucous squawk that sent the crow side-stepping out of harm's way. Then the gull started feasting. The crow was furious, dancing around a few feet away and calling that gull every nasty name it could caw!

But the gull continued to enjoy the food Blackie had found.

Real Wise Guy

The crow flew up into a nearby tree and lapped into watchful silence. A moment of quietness, during which time the wheels were churning in Blackie's somber head, because suddenly this bird flew across the street to the far curb, where there was a piece of brown paper similar to the bag containing the sandwich lunch. The Crow began nudging the crumpled brown paper with its beak, after letting out a squawk evidently intended to attract the gull's attention. And the Herring Gull did pause in its feasting, glancing across at the Crow who was worrying the discarded paper. Next moment the gull flew across to the Crow's new position and squawked at Blackie to drive him away.

Blackie got out of there at once: the Crow flew straight back to the lunch bag and began bolting the sandwiches, just as fast as ever he could fill his greedy beak! For a moment the big gull fussed around the brown paper decoy, looking for food. Unable to find any, the gull flew back across the street to the lunch-bag, where Blackie was still gorging. The Crow was chased away a second time. Blackie flew up into the tree once more, with crop and beak stuffed with gobbled plunder.

After gulping down a final swallow of food, Blackie went back to the empty brown paper in the far gutter, squawking several times to attract the gull's attention. But the gull wasn't to be fooled again, staying with the lunch-bag until it was empty.

However, Blackie had convincingly demonstrated some "thinking" ability, duping the Gull long enough to give himself a chance to gorge on the free food.

When we destroy a Magpie nest in an exposed location near a barn or a gate, why is it that the second nest built by the same pair of Magpies is almost invariably placed in a more hidden location farther from our buildings or roads? Destroy that second nest, and the third house built by the persistent Pies is even more cleverly concealed, usually among a thick-growing screen of spruce branches if such trees are available. Have they done any reasoning about the need for hiding their nest from us?

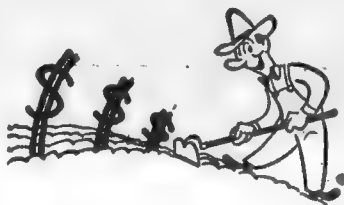
Perhaps the deep, dark thoughts of mankind are sometimes duplicated by the birds!

To Leslie Mutch, M.P.

(From the Wheat Pool Budget)

The toad beneath the barrow knows
Exactly where each tooth-point goes;
The butterfly upon the road
Preaches contentment to the toad.

—Kipling.



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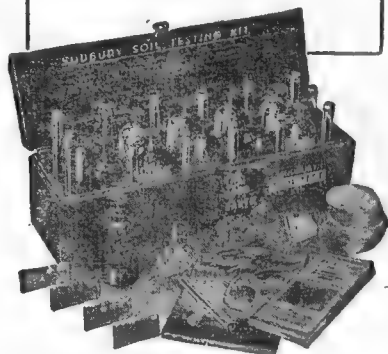
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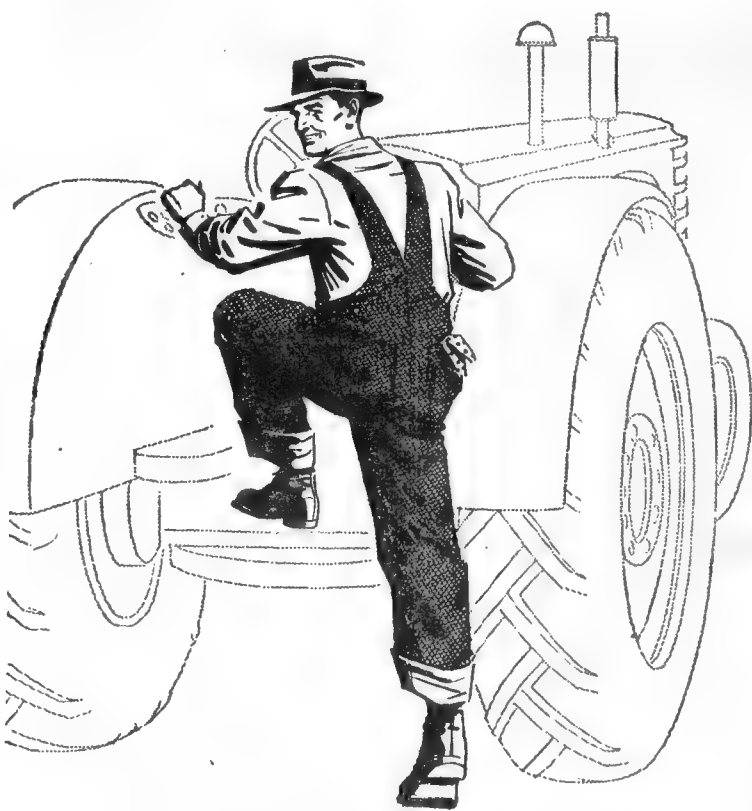
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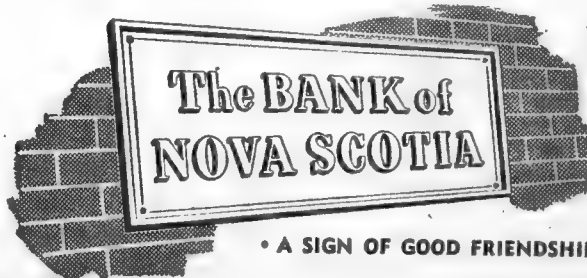


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Go GREYHOUND

And now to get set for the summer insect pests

By PAUL HUXLEY

THE pale yellow cabbage butterfly, which is often seen from June till the fall, is the most destructive of all our butterflies.

While it does useful work pollinating the flowers, it, nevertheless, causes much greater harm. It produces many green, lengthy caterpillars which reduce the leaf surfaces of cabbage and cauliflower plants, disfigure their heads, and decrease their marketable value.

The butterflies emerge from the pupa stage in May, and begin laying yellowish eggs on the underside of the leaves of the above plants, which hatch five days later; the grubs which subsequently attain a length of 1 1/4 inches and have a faint golden line down their backs, eagerly eat the heads and leaves of the plants, attain full growth in three weeks; pupate on leaves or stems for nine days, and then emerge as butterflies.

There is much breeding during the rest of the summer and in the early autumn, and those grubs which pupate shortly before snowfall, so remain in some sheltered spot throughout the long, cold winter. The hibernating caterpillars often make use of rubbish and weeds in gardens while others prefer the under surface of a horizontal fence rail. If, therefore, gardens are kept clean, fences periodically inspected and observed cocoons inspected, there will obviously be some reduction in the future cabbage fly population. The best destructive technique is frequent spraying between May and the fall with a solution of arsenate of lead, two pounds to forty gallons of water.

Potato Aphids

In Canada, the potato crop is often attacked by tiny green, soft-bodied insects called aphids of which there are four kinds, namely, the common potato aphid, the green peach aphid, the buckthorn aphid and the foxglove aphid.

These insects, which suck the sap from the undersides of the leaves of growing plants, severely damage the foliage by so doing, cause it to turn yellow, and drop off, and, of course, restrict the yield. Aphids cause further injury by transmitting such virus diseases as leaf roll, mosaic, and spindle-tuber.

Life History

Potato aphids hatch in early spring from over-wintered eggs deposited on buckthorn, foxglove and rose shrubs and on plum trees.

The minute green insects which are all female and wingless begin feeding at once on the nearest areas of green plant life and shed their coats several times to permit full growth.

These female lice produce

several generations of females during spring and summer, without prior mating, and not till late fall do male and females appear.

By then, of course, breeding on a vast scale has occurred. The winged female aphids divide their time by feeding, breeding and settling on juicy

Prize picture



Music may have charm to soothe the savage breast, but you couldn't prove it by Barbara Mallett. Happy, her dog, is obviously taking a dim view of her flute playing. Her father, Leslie C. Mallett, Box 169, West Sumnerland, B.C., sent us the picture.

plants, especially weeds, and by "sucking" potato plants when they are four to six inches high.

A fairly serious aphid invasion can reduce the potato crop by forty barrels per acre. Furthermore, not a few potatoes are virus diseased.

Destruction Technique

If DDT applications commence when the potatoes are two or three inches high this will ensure virtual freedom from insect injury. Moreover, such action is also effective against Colorado potato beetles, potato leafhoppers, flea beetles, and tarnished plant bugs. DDT is not efficient when sprayed in the emulsion form though dusts have yielded good results. If the spray method is used eighty gallons per acre will be needed early in the season and 175 gallons, at least, for heavy topped potatoes. The pressure should be about 250 pounds.

If dust applications are preferred, use twenty pounds per acre during the earlier period and forty pounds during the later stage.

The DDT spray is made by thoroughly mixing one quart of 25 per cent DDT emulsion with one hundred gallons of water. (If necessary, of course, half a pint of the emulsion could be mixed with twenty-five gallons of water.)

Such spraying should take place fairly frequently during,

potato growth. In addition as much weed as possible should be destroyed.

To those who prefer the dust technique, it might be added that the July dust forms contain a three per cent DDT content, while that for August (specifically for aphids) is five per cent.

To ensure destruction of aphids the entire foliage and particularly the lower leaves must be thoroughly dusted or sprayed.

The insecticide should be applied weekly till top-killing time. (In the east, this is particularly important from July 20 till September 10th.)

If refuse heaps on headlands cannot be disposed of they should be thoroughly dusted or sprayed, periodically, otherwise they will provide "breeding grounds" for innumerable aphids.

The Potato Bugs

The black and yellow striped potato bug, sometimes called the Colorado beetle, breeds on a vast scale and can cause much damage to the potato crop if not dealt with.

Scientific research has shown that one female adult potato bug, which survives the winter, can produce about five hundred mature insects some seven weeks or so after its hibernation ends.

If half of them were females, and they escaped destruction from birds, they could, after reaching maturity, produce over one hundred thousand adult bugs a few weeks afterwards and they, in turn, would subsequently "multiply" rapidly, also.

Since twenty plants usually yield a bushel of potatoes, it will be realized how serious could be the damage caused by hundreds of potato bugs if not destroyed on a sufficient scale.

The female adult beetle, after spending winter buried in the ground, emerges from its hibernation in May or June and lays about five hundred bright orange-yellow eggs in clusters of twenty-five or fifty, on the underside of potato leaves.

Prize picture



This delightful after-the-picnic shot was taken by Mrs. Murray Racknor, Sedalia, Alta. The deserted, but contented baby, is Diana Heatherington.

If the weather is warm, as it usually is then, the eggs hatch a week afterwards, and the grubs or larvae eat away at the potato leaves, and grow rapidly. They shed their coats four times and reach maturity in three weeks. The larvae then bury themselves in the earth for ten days or so in the pupa state after which they reappear as adults.

Destruction Technique

The Colorado beetle can be destroyed either by spraying the potato leaves with a solution of arsenate of lead and Paris green or, better still, by using DDT as directed. Most farmers prefer a 50 per cent wettable DDT used at the rate of two pounds to one hundred gallons of water. Another brand of DDT is a 25 per cent emulsion used at the rate of one quart to one hundred gallons of water. The sprays are applied with a hand or power sprayer at the rate of about one hundred gallons per acre. For small gardens, a three per cent DDT dust by hand is sufficient.

The Potato Leafhopper

The pale green, wedge-shaped, sucking leafhopper which is about one-eighth of an inch long causes hopperburn which usually results in virtual defoliation of the potato plants. Severe infestations may kill such plants before the normal development of tubers is completed. In any case, the potatoes might be so small that they would not be worth harvesting. [The leafhopper also attacks beans, tomatoes, alfalfa, apples, and many cultivated plants.] Leafhoppers feed on the undersides of potato plant leaves, so do their nymphs, causing a yellowing at the tips and along the edges of the leaves which subsequently brown and become curled. These margins gradually widen until a little of the leaf alongside the midrib alone remains green, and the plant soon perishes.

When potato plants become larger the leafhoppers (which may have already attacked the beans, alfalfa, and apple trees) lay whitish eggs about one twenty-fourth of an inch long in the stems and larger veins of the leaves with their sharp ovipositor or egg-chamber. Two or three eggs are laid daily for one month, each hatches in about ten days, and the nymphs become fully mature about a fortnight later. This first brood generally appears about the middle of August and another generation a few weeks later.

The destruction technique is the same as for Colorado beetles and should be started early.

Judge Not

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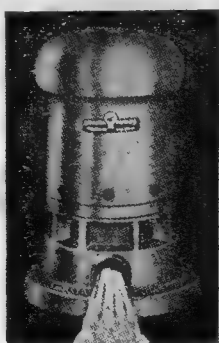
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The Flowers of Spring



Can economic agreement follow the defence pact

By BEN MALKIN

IF an economic expansion among Atlantic Union countries follows on the heels of defence plans already laid, Canada can take much of the credit; for at the foreign ministers' conference in London during May, Lester B. Pearson, Canada's minister of external affairs, made it a point to press for implementation of Clause II of the Atlantic Treaty. This clause calls for economic co-operation among the Western democracies, to supplement military measures for defence against Russia.

Economic co-operation is far from a simple matter among European countries on the one hand, and the United States and Canada, but particularly the United States, on the other. The economies of various European countries compete in many ways, and living standards are varied. Moreover, the economic policies of governments vary, being socialist in some and free enterprise in others. Co-operation would not be as difficult to achieve as the dream of economic union, but it would be difficult enough.

The very first step toward such co-operation, when it was proposed, was met by the British government, for example, with little enthusiasm. This

was the proposal of France that the Rhur and French steel industries be combined. Britain needed assurance on two important points. First, how severe would the competition of the combined French and West German industries, producing about 20,000,000 tons a year between them, be for the British mills, producing about 15,000,000 tons.

Would the efficiency that would accompany combination of the French and German steel industries mean a lower standard of living for British steel workers, in order that they might compete? Secondly, wasn't the French proposal a disguised form of cartelization, such as existed between the French and German industries before the war? And wouldn't such a cartel divide up the export market to Britain's disadvantage?

Vital Necessity

On the other hand, many in Britain, as well as on the Continent, see economic co-operation as an over-riding necessity if Europe is to become economically strong, where now its national divisions help keep it weak. The London News-Chronicle, for example, has pointed out that coal and steel are the basic commodities of peaceful production, and "while,

they remain under purely national control the co-operation of European peoples can never be as full and fruitful as it must be if our way of life is to survive the strains to which it is subject."

Economic co-operation, if Canada's aim is achieved, would have wide repercussions. It would mean lowering of tariffs even more rapidly than has been attempted under the International Trade Organization, and probably a freeing of international exchange and of import and export restrictions, and other limitations on international trade. Canada, as an important trader, has a vital stake in the success of Mr. Pearson's move.

New Approach

The past few weeks have also been notable for a new approach to the problem of Germany. Germany is to be brought into the Council of Europe—at least, that part of Germany not under Soviet influence. France, Britain and the United States will continue to maintain occupation forces there, for the announced purpose of providing a defence against Russia, rather than occupying a defeated country. Thus, the splitting of Germany into two countries begins to take final shape, with one part definitely in the camp of the West, the other as definitely in the Russian orbit. It may be assumed that this division of Germany by outside forces is detested by the Germans themselves, and if and when the opportunity arises, they will turn on both the West and East in order to look after what they have always considered their own best interest—a united Germany.

However, these two moves do mark progress in strengthening the West. They bring Germany into closer alliance, however unwillingly, with the Western democracies both in the economic and political fields. As long as the threat of Russian aggression remains strong, the West Germans will no doubt be willing to go along with this plan, and to remain one of the family of free nations. To that extent, Soviet aggressiveness is inadvertently serving a good purpose.

Strengthening of the West will, of course, mean a strengthening of Canada. The industrial countries of Europe, as well as the United States and Britain, provide large markets for Canadian goods. In addition, as Western Europe is able to take up more of the burden of defence, less of it will fall on the shoulders of the U.S., Britain and Canada. This is all to the good. Small wonder, then, that with the groundwork laid for carrying out the defence clauses of the Atlantic Treaty, statesmen are concentrating now on the economic clause.

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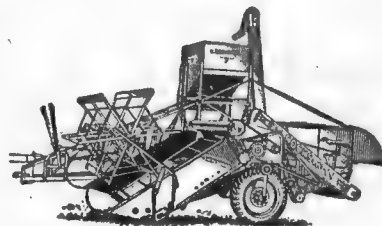


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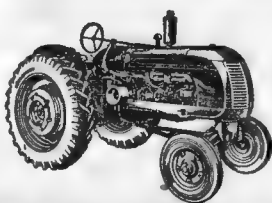


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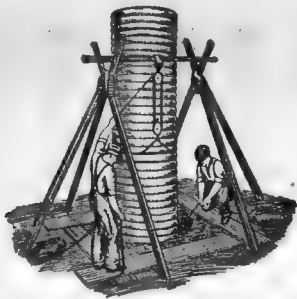
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Newcastle disease hits B.C. more than 100,000 chickens slaughtered

By A. J. DALRYMPLE

BRITISH Columbia's Lower Fraser Valley, which has the largest concentration of poultry in Canada, has suffered heavy losses this year through the outbreak of Newcastle disease, and the end is not yet in sight.

The disease was first noted on February 26, and up to time of writing (May 17) a total of 116,000 chickens had been destroyed by federal order. These comprised 51 flocks. Total of 89 flocks have been quarantined, but some have been released. There are now 31 flocks under observation.

Eradication policy of the Dominion government is to destroy the entire flock when Newcastle is discovered on the premises. The government compensates the owner.

Up to a few weeks ago the compensation was based on an estimated two-thirds of the value of the birds. This was lately raised to an estimated 100 per cent of the value of the flock. Government agents have recommended \$115,000 compensation for the 116,000 chickens destroyed to date.

The first case of turkeys suffering from the disease came to light on May 15. Several thousand turkeys were destroyed.

Thus far no cases have been discovered on Vancouver Island, but one flock is under observation. Actually the affected area is quite small; a few miles around the lower reaches of the Fraser and two cases in North Vancouver.

That fact, however, does not lessen the worries of poultrymen because scientists report that Newcastle disease has been known to travel 200 miles in one night.

Science is struggling mightily to get to grips with this serious virus disease. It is believed to be wind-borne, and prefers dry wind. It may also be carried by wildfowl or other birds, but this has not yet been proven.

Government veterinarians emphasize the necessity of preventing spread of the disease through use of infected poultry and egg crates, or through introduction of new breeding stock from infected sources.

They stress also that the flock owner practice highest possible standards of sanitation. They advise him also to prevent unauthorized persons from moving around his property.

All Over

Newcastle disease is known in many countries of the globe, and takes its present name from an outbreak in Newcastle, England, a few years ago; and it is

said to be found in every state of the American Union.

The fact that Newcastle is prevalent in state of Washington is a continual source of worry to B.C. poultrymen; and this also brings up a highly controversial point.

Dominion department of agriculture policy is to stamp out the disease by slaughter of infected and exposed birds. In the U.S.A. the use of vaccine is considered the best way to fight the disease.

Opinion among scientists and laymen alike, is sharply divided on the subject of vaccine. Some are demanding vaccine be put into use at once. Others claim that the effect of vaccine lasts only a few weeks, and is also extremely costly.

Dr. Thomas Childs, veterinary director general, Ottawa, says: "The use of vaccine would seriously interfere with laboratory and diagnostic work in that the vaccinated bird would exhibit approximately the same blood reactions to laboratory tests as a bird actually carrying the disease."

"It is conceded that properly prepared vaccine may have some value as a protective agent. However, use of vaccine would not be compatible with present policy."

"The present outbreak in B.C., while considered serious enough to warrant radical control measures, has by no means reached alarming proportions, and involves less than 1½ per cent of the poultry population in the Fraser Valley."

Since that statement was made a number of flocks have been destroyed, so that at present the figure would stand at something more than 1½ per cent.

Dr. K. F. Wells, associate chief veterinarian, Ottawa, flew to Vancouver to work with Dr. F. W. B. Smith, district veterinarian, in efforts to stamp out the disease.

They issued a joint statement, saying: "Only a few adult birds

"I Saw . . ."

One of the unusual sights I saw while travelling in the northern part of the province in the Lac la Rouge area, was a cabin along the highway with a fence, protecting the garden and front part of the little home, made of moose horns.

Mrs. J. E. Cameron.
Elrose, Sask.

The Farm and Ranch Review pays \$1 to observant readers who spot the unusual sights on the prairies and send them in to the Editor.

have shown any evidence of the disease. When the disease is encountered the health of animals branch orders the slaughter of all poultry on the premises; the infected as well as non-infected birds.

"The large number slaughtered therefore means that most of them were killed, not because they were diseased, but because they were on premises where the disease was found.

"Slaughtering policy is the most effective method of preventing its spread to our poultry flocks. Unlike human infections the control of contagious animal disease is effectively completed by the destruction of sick animals; and all sick animals are either destroyed or held in strictest quarantine."

Caused Panic

Some time may elapse before this disease is finally whipped, but the panic that followed the outbreak in B.C. will not soon be forgotten.

When the disease first made its appearance poultrymen decided to keep mum on the subject, and it was not long before backyard conversations on the subject started a series of wild rumors up and down the Fraser Valley.

Mothers feared for their children. Newspaper offices were deluged with calls, with the result that Newcastle disease was forced into front-page prominence, and now everybody knows that Newcastle disease symptoms in adult birds appear like a common cold. There are respiratory difficulties, gasping, followed by nervousness, loss of use of wings and legs.

When laying birds are infected egg production quickly drops to as low as 10 per cent of normal.

During the panic in the Fraser Valley there were rumors that the infection might spread through poultry products to attack humans. Some thought an outbreak of infantile paralysis would follow. Retail sales of fryers, boilers and eggs dropped to a low ebb; and the distributing centres plugged with poultry produce.

Prize picture



Here's a fellow who is learning early the pleasures of relaxing with a pipe. He is Bobby Nordin, 3½-year-old son of Mr. and Mrs. E. Nordin, Teulon, Man. Mrs. Nordin won \$3 for this picture.

Dr. Smith then issued a statement on behalf of the department of agriculture, saying: "There is no scientific evidence to link Newcastle disease in poultry with infantile paralysis in humans.

"It is true that there has been Newcastle disease in B.C. and in many sections of the U.S.A., Great Britain and other countries. In these countries no reason exists for danger to humans.

"The consumption of poultry and eggs offered for sale in our stores may continue without any known risk to the public."

Meanwhile farmers, government and university officials are making attempts to combat the disease.

Dr. S. N. Wood, University of B.C., has asked poultrymen in affected areas to keep an eye open for any wild birds that appear sick. If any sick birds are captured or shot, and sent to him, he will conduct studies in the hope of finding a carrier.

The Vancouver Island poultrymen have asked that the island be declared disease-free. It is doubtful if such a declaration will be made as there is at least one flock under supervision on the island.

Some meetings have been cancelled because of the disease. The annual Junior Club field day at the University, which draws about 500 boys and girls from the Fraser Valley, has been postponed because of the plague.

Don't farmers eat butter?

"FARMERS themselves have considerable responsibility for the present butter surplus in Canada," said Gilbert McMillan, President of the Dairy Farmers of Canada. "Surveys indicate that butter consumption in rural areas is below normal in a season when the supply is ample."

Mr. McMillan pointed out this was a responsibility that not only dairy farmers, but all farmers had to face. If farmers did not have faith in their own products and loyalty to their own industry, all would eventually pay a severe penalty. Farmers would quickly undermine government confidence and support if they did not see the danger of using cheap substitutes for their own products. Nothing could be more expensive in the long run, Mr. McMillan emphasized.

Cream producers would be the first to feel the pinch of a drop in butter consumption and subsequent results could be far-reaching. Any large shift away from milk production would upset the balance in whatever line of farm production the dairy farmer chose to enter.



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Our Readers think.....
• LETTERS TO THE EDITOR •

Alberta farmers need power but the cost is prohibitive

To the Editor:

YOU will oblige your subscribers if you publish in your paper a study of the farm electrification in Alberta, comparing our Alberta system with the systems of other Canadian provinces, mainly Saskatchewan and Manitoba.

For your own information, I can say that in St. Paul district there are two systems actually working, viz., the local district's system and the co-op's system.

Under the local district system the Canadian Utilities Ltd. built the line to the farmer's yard for a deposit of \$50.00 from the farmer. The rate is \$5.00 monthly charge for 25 K.W.H. and 3c for what is used over 25 K.W.H.

Of course, the Canadian Utilities Co. Ltd. have discontinued to build under the district system, so the farmer must now pay the full amount of the cost of the line to his place. The best way to do that is by a co-op's way, but is not a very cheap way. According to the St. Paul Journal, herewith enclosed, it cost \$1,050.00 in Alberta to have the line built to the farmer's yard. (Here it cost \$850.00 only.) Even at that price there is two main setbacks: 1st—The newly wed couples cannot afford to pay that amount of money. 2nd—Those who have the electricity right in their yard are mostly moneyless to buy the electric accessories for a reasonable use of the electricity available.

The co-op. rates are as follows:

1. For transformer installation not exceeding 3 Kilovolt Ampere (K.V.A.).
- (a) Operating charge, \$2.50 per month.
- (b) An energy charge of 2c per K.W.H. net with a minimum of 50c per month.
- (c) A charge of \$1.00 per month.

So for a minimum of 25 K.W.H. a monthly fixed charge of \$4.00.

The energy charge for any amount of electricity used is 2c per K.W.H. Comparison with the Manitoba farmers we, in Alberta, are not in a very good position. Comparing with the Saskatchewan farmers it is doubtful if we are in a very much better position. Anyway it is far easier to pay \$577.00 in Saskatchewan than \$1,050 in Alberta for installation of the power line.

Please note that 3 K.V.A., though very useful now may soon be found to be inadequate later on. But if a farmer need use more electricity he should pay for the installation of a new transformer up to 10 K.W. A. and a monthly operating charge of 50c per K.W.A. With the above information, I hope you may judge if we farmers in Alberta are fairly used, or somewhat well skinned, by the private companies.

As I have the electric line at home, by this letter I did not intend to say that farmers should not be hooked on to the electric line. I want to know only if we are fairly used, comparing with other prairie provinces under the present system in Alberta.

A. Mahe.

St. Vincent, Alta.

Prairie shackles are heavy

To the Editor:

In a current issue, Editorially you say, "The Ultimate Salvation of Western Agriculture, Lies in the Great Increase of the Prairie Population," etc., that is trite, but the real need is a repetitive condemnation of the Ottawa policy of preventing such increase by specific acts of centralization, injustice and law defiance against which there is no avenue of redress at all.

Canada today operates by and through closed courts, bureaucracy, instead of the three legs of British democracy, viz., throne, parliament and law courts.

Re prairie population, wouldn't the prairie of Canada be far better off in every way, especially to offset communism, if the old loyal soldier settlers had been given a square deal, instead of being illegally hounded off their lands like criminals by Ottawa shlylock administration, and can they ever be replaced? Until the present ideology of Ottawa is completely reversed and motivated instead by and for the welfare of Canada as a whole, then the prairies can continue to be the milch cows and cannon fodder nursery for Ottawa's ever-encroaching of entrenched privileges and patronage graft.

What we do need to start with is a Canadian Bill of Rights which would blast open our closed courts and allow democracy—British democracy to work, and the prairies to prosper, with a loyal family on every half-section.

Tom L. Poulsom.
Rochfort Bridge, Alta.

Feels
betrayed

To the Editor:

Having read your editorial in your May issue, I would like to say that if the farmers had to depend on the loyal support of your paper they would surely be on the rocks proper. You very eagerly support the drop in all prices on farm products, but you are cowardly enough not to mention big industry. These commodities are at the highest level according to the yardstick. But you like to see wheat go down to \$1.40 for Number 1 Northern at Ft. William and then government graders skin us from 1 to 2 grades from what we got before under open markets.

This was just a steal for the government dictatorship that would make us wonder if we were still free people. And we well know now we are not, and dictators usually tell their papers what to build up and how. I have been a supporter of the government all my life, but not any more. The next election we will try to elect something more toward freedom.

But I suppose you and your kind like to get food for little or nothing regardless of what it costs to produce it or who suffers. An old Biblical saying is "according to their works ye shall know them." But everything the farmer produces has gone down, so where are our Government support prices?

Robt. Milsap.

Edmonton, Alta.

Manning
admirer

To the Editor:

The issue of April contains an Editorial entitled "Albertans' dividend from debt retirement will be 80c per person per year," in which you criticize the government for its application of \$19,000,000 to debt reduction and this merits comment. Any right-minded person dislikes a millstone of indebtedness hanging around his neck. And it is the part of wisdom and good business to free one's self of it. Prosperous times are when it should be done.

Premier Manning has not neglected other services. He has appropriated \$30,000,000 for public works, and vast amounts to education and public welfare.

A debt reduction of \$56,398,000 in the past 14 years is a record of which Albertans may be proud, and it is to be hoped that the good work will be continued until Alberta holds the unique position in Canada of being a debt-free province.

A. R. McFadden.

Bluffton, Alta.

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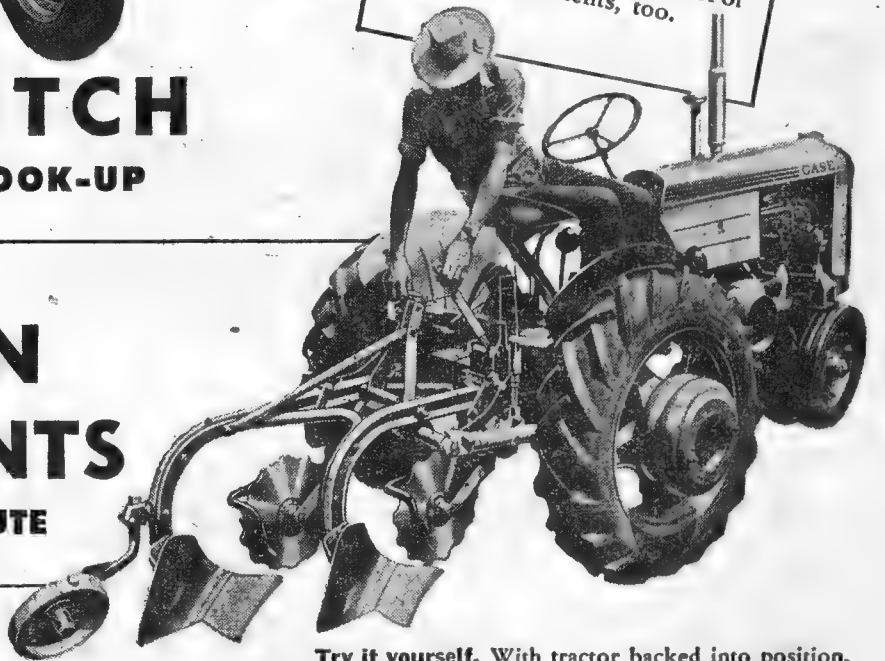


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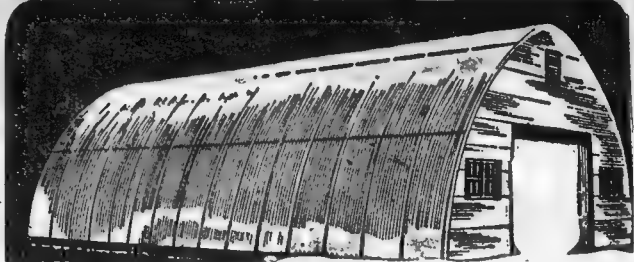
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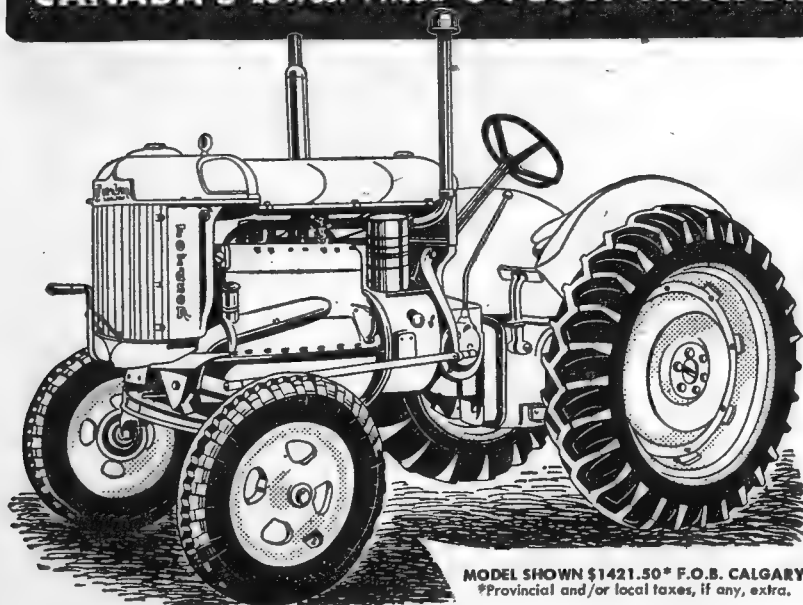
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Popularity of the blade cultivator is rapidly increasing

TO store the maximum moisture on summerfallow it is necessary that weed growth be kept at a minimum during the fallow season. At the same time the prevention of soil drifting must be kept in mind. An adequate trash cover has proven to be the most effective protection against damaging winds. Therefore the fallow procedure should aim to prevent weed growth and leave the surface covered with stubble and dead weeds.

Blade cultivators have come into common use in Southern Alberta because they kill weeds and at the same time leave the stubble on the surface. The blade cultivator is used extensively for fallowing at the Lethbridge Experimental Station. Every effort is made to use it at as shallow a depth as possible because the weed kill is more effective than when it is operated at depths greater than three inches.

No increase in yield has been obtained from deep cultivated fallows as compared with shallow cultivated fallows. Some farmers insist that deep cultivation is necessary to break up the "hard pan" layer. This is not a hard pan layer but a shallow compacted layer formed by the pressure of farm machinery passing over the field. This layer does not to any appreciable extent resist the penetration of moisture.

Deep cultivation may be desirable in a limited number of cases including solonetz or alkali soils, but for normal soils fallowing is done more effectively and economically at a shallow depth.

Weight must be used to make the blade cultivator work at a shallow uniform depth. Under most soil conditions 100 to 150 pounds per foot of width will give satisfactory results.

Reduction of weed growth has been most effectively done by blading as soon as possible after a storm rather than waiting for good weed-killing weather.

The use of a blade may require an extra cultivation as compared with using a one-way disk. However, several strokes can be made with the blade without the risk of losing trash cover protection. In most cases two strokes of the one-way disk will reduce the trash cover to the danger point.

Blade cultivators are being used more extensively each year. They are highly suitable for summerfallowing under dry

farming conditions, but like every other implement the farmer must learn to use them properly.

Early cutting means better hay

IT is common practice to harvest perennial forage crops too late to make the best quality hay. By delaying cutting the hay crop, many people believe that greater yields will be obtained. This is erroneous, because after the flowering stage the plants make very little growth of stems or leaves, instead, the growth energy goes toward the production of seed.

Grasses and legumes should be harvested at a time when the best combination of yield and quality can be obtained. The protein content at any particular stage is the best yardstick for measuring quality of fodder. Chemical analyses have shown the protein content drops rapidly after the flowering stage in both grasses and legumes. For example, the protein content of crested wheatgrass from 13.8 per cent when the heads are emerging from the sheath to only 8.5 per cent three weeks later.

Since no increase in yield can be expected after the flowering stage and the quality of the forage is poorer after this stage, it is important to cut grasses shortly after they head out, and legumes when they are about half in bloom.

Another important point to keep in mind when putting up hay, is to minimize bleaching by sun and rain, which causes a considerable drop in Vitamin

Prize picture



Mrs. Art Brassington, Paradise Valley, Alta., provided us with this nice shot of little Donna and her newest pet.

content, as well as other food substances.

Light stands of grasses dry very rapidly, and in hot weather they may be raked and stacked one half day after cutting. Heavy stands of grasses and legumes require a slightly longer time to cure, but in good drying weather they, too, may be raked in the evening if cut in the morning.

Remember, start haying early, especially if there is a large acreage of hay to cut. It is better to lose a little in yield on the first hay cut, than to lose a lot in digestible nutrients at the last part of the season.

Swift Current Short Course

"FUN, Food, and Fashion on the Farm", is the theme of the short course for rural girls (15 to 30 years of age). The course will be held at the Dominion Experimental Station, Swift Current, July 11 to July 21. Instruction and supervision by the Women's Department, Extension Services, University of Saskatchewan.

Poultry range pays profit

GROWING chicks which have access to good range develop into profitable producers of eggs and meat with lower feed costs. But the range must be free from contamination and such as to give abundant, young, succulent forage throughout the entire growing season. Naturally the crop grown for such a range must be adapted to the soil and climate of the particular area.

At the Dominion Experimental Farm, Brandon, alfalfa sown at about twelve pounds an acre has proved to be the best

suited to supply forage for poultry. It begins growth early in the spring and if moved from time to time, gives succulent highly nutritious forage throughout most of the summer. Even after long droughts, it quickly recovers when rain comes.

A three-year range rotation is used at the Farm, which allows a two-year idle period between each crop of chickens. This keeps the range area free from contamination by disease organisms and parasites. During the rest period the range is cultivated and fallowed for one year. In mid-summer of the fallow year alfalfa, with or without a nurse crop, is sown. This leaves one year for the alfalfa to become established before chicks are pastured on it, and if the growth is heavy during the first summer a hay crop can be removed.

An acre of alfalfa range will accommodate 400 - 500 birds and to ensure all being used, colony houses or range shelters should be moved about. Feeders and drinking troughs should be moved frequently to reduce the risk of contamination of the ground around them.

If possible a poultry range should be on a well drained site

which is relatively free from permanent shade. Temporary shade can be provided by cultivated plants such as sunflowers or corn.

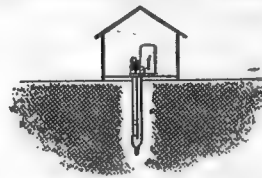
Natural Causes

In Winnipeg, Man., when a motorist complained that his Ford screeched like a cat, Mechanic Ivan Booth lifted up the car hood, found a badly frightened cat perched on the battery.

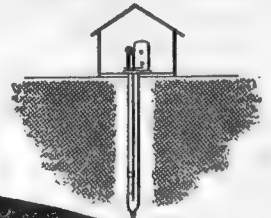
Lover's Choice

In Detroit, Mrs. Patricia J. Stephens won a divorce after testifying that her husband thought "it was very funny to kiss the dog, give me a pat on the head and walk out the door." In San Jose, Calif., the court granted Mrs. Marcia Lightner a divorce when she quoted her husband as saying, "I love (my) horse more than any human in the world."

SHALLOW WELL

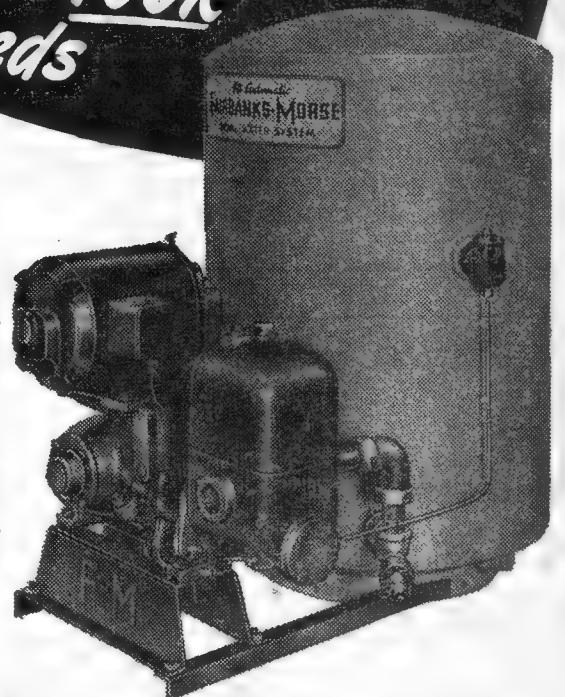


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"I Saw . . ."

Last spring my husband came in from chores with a big goose egg. It was a surprise because we didn't have any geese. He found this egg in the yard, not far from the house. How it got there we don't know. Perhaps a hawk had been flying over with it and got frightened by the dog and dropped it (the goose egg has a thick shell and wouldn't break easily). We had a hen wanting to set at the time, so we put this egg under her and in four weeks' time we had a little gosling.

Mrs. Oliver Rusk.
Rimbey, Alta.

The Farm and Ranch Review pays \$1 to observant readers who spot the unusual sights on the prairies and send them in to the Editor.

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ALBERTA POOL ELEVATORS

Our readers react to the menace of the .22

Applauds Kerry Wood

To the Editor:

In response to your invitation to comment on Kerry Wood's article on the "Menace of The .22", I should like to say that both my wife and myself are in full agreement with Mr. Wood. We have spent a large part of our lives on prairie farms, and have frequently seen the conditions Mr. Wood describes. These boys, many of whom know no more of how to handle a .22 rifle than if it were a toy pistol, came on to my land at times, shooting at gophers and crows, and risking hitting animals and humans as well. I frequently walked along the highway and saw empty shells every few yards, and we could often hear shooting going on in the town limits. Sometimes there would be complaints and then the police would act, but otherwise they did nothing, and there are apparently no regulations regarding this, which require them to take action.

A .22 is as deadly as a revolver, and if a permit is required for one, it should be for the other. No one under seventeen years of age should be allowed to have one, and licenses should be required in every case, the gun to be confiscated and fines imposed in cases of contravention. No shooting should be allowed anywhere near a highway, and it should be a punishable offence to shoot on private property without the owner's consent.

If younger boys wish to learn to shoot, they could do so on club ranges under proper supervision. At present in the hands of irresponsible boys, the .22 is a decided menace, and in the interests of the public safety, adequate control regulations should be passed at once.

R. W. Thompson.
Salmon Arm, B.C.

Condemns rimfire bullets

To the Editor:

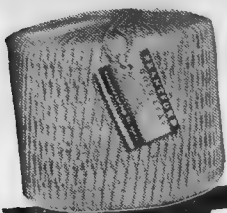
Re article by Kerry Wood, "Menace of the .22", will say I agree with him in most of his statements but can not go all the way. In the first place he uses the calibre .22 literally, when he should specify rimfire .22. These are all dangerous as to ricochets, while centerfire .22's are all reasonably safe in this respect. Some of these are very expensive and none are cheap in the sense that the rimfires are. These are named in order of their power and are started from the lowest: .22 Hornet, .218 Bee, .219 Zipper, .222 High Power, .220 Swift. The latter has a velocity of over 4,000 feet per second. This is what makes them safe, even on

level terrain, and they were all designed with that in mind. A lot of farmers associate the report of a rifle with danger, but the higher the speed, the safer as they blow the bullets to bits on contact with the ground. There is easy ways of getting information in this regard by buying a copy of most sporting magazines and writing the editor of the arms and ammunition department. I don't think it a great deal of trouble and it is to their own interest as then they would have some idea of the risks when giving a hunter permission to shoot on their premises. This is a thing they should require. These true vermin rifles seldom fall into the hands of teenagers. In most cases the users of these are more expert in the use of a rifle than the users of the ordinary sporting rifle not many of which are safe to use on vermin as most of them are too slow and carry too heavy bullets. Furthermore the .22 rimfire is not a coyote rifle in any sense of the word. There certainly should be a means of controlling the use of the rifle in the hands of youngsters. I can truly say that when there are several of them together it is a greater menace as some of them will do things that they would not do when alone. If farmers would take a little interest in learning

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MADE from two pieces of wood, sheet metal and a spring-type clothespin, this rubber-band pistol provides an entertaining toy. The wooden barrel and butt are joined with two sheet-metal plates fastened to the wood with brads. Before assembling the barrel and butt, the clothespin is taken apart and one arm screwed to the face of the butt. Then the clothespin is reassembled to form the trigger. A strip of sheet metal serves as a trigger guard. Note in the lower left-hand detail that the rubber bands which are cut from an old inner tube are wound with string at one end. When loading the gun, the ball formed by the string is gripped by the clothespin jaws.



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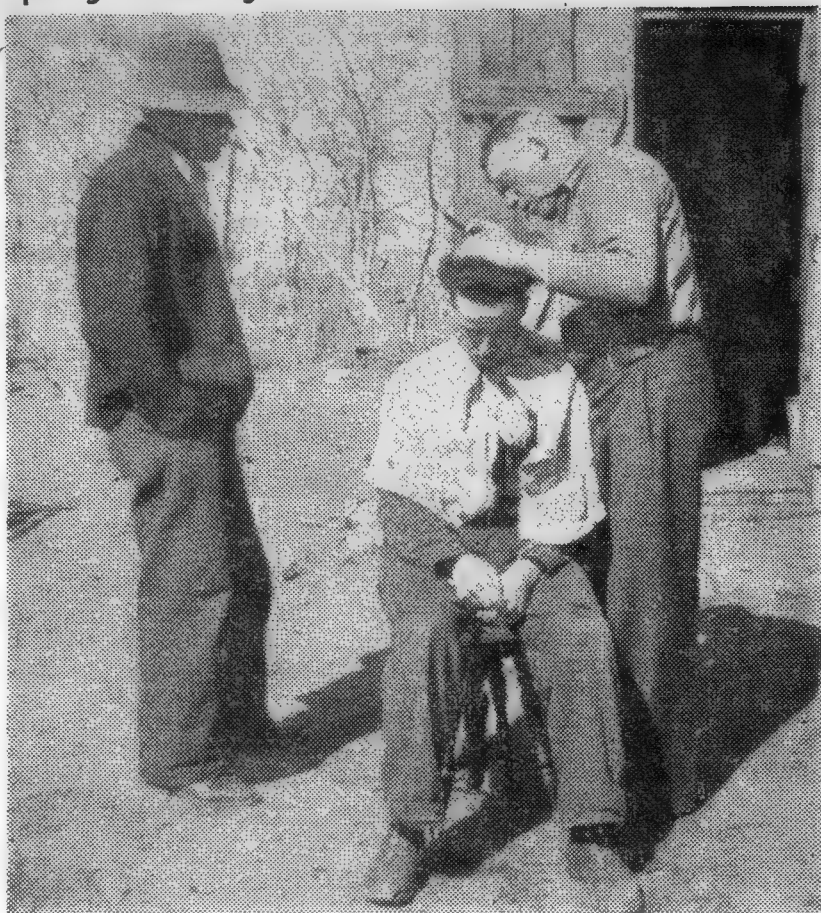


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Spring Shearing



Mrs. Alex Smyth of Hillspring, Alta., sent us this picture of George Sheardown doing a barbering job on Clifford Ganton while Arthur Grandberg watches and waits his turn.

Sask. farmers urge to save shelterbelts

ALL Saskatchewan farmers breaking new land have been urged to leave shelterbelts around farm lands wherever possible, by Saskatchewan agricultural department officials.

This applies particularly to the breaking of new land in the frontier regions of Saskatchewan, now being made available for agriculture.

Farmers in all areas benefit greatly through increased yields by planting shelters around individual quarter or half sections. Farmers in the Conquest area of Saskatchewan a few years ago planted belts across fields at 40-rod intervals, and have since reported an increase of as high as 20 per cent in moisture efficiency, along with higher yields.

Soil in this area was light and the experimental planting of

shelterbelts consisting mainly of caragana and willows to cut down wind erosion was highly successful, the officials said.

They pointed out that shelterbelts, an important conservation measure, trap and hold snow where it falls, prevent soil drifting and cut down wind velocity around farm buildings, as well as beautify the landscape.

Current projects of roadside tree planting in municipalities call for planting not less than 75 feet back from the center of the road. Crops may be grown between trees and roads.

Poplar, willow, Manitoba maple and caragana are most commonly used for shelters in Saskatchewan. Rapid growing, they provide effective shelter within five years of planting. They are supplied free by the Dominion Forest Nursery Station, Indian Head, while local agricultural representatives can give detailed information on planting procedures.

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Don't let the cobalt deficiency (pining disease) rob your animals of their appetites and weight and so rob you of your profits. Protect your animals by feeding them Cascade Cobalt Iodized Salt. Order Cascade in sacks and in blocks with the new peg hole to prevent waste.

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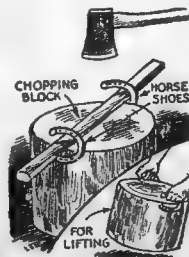


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HORSESHOES ON CHOPPING BLOCK KEEP KINDLING FROM FLYING

To prevent pieces from flying when chopping kindling, a farmer attached a pair of horseshoes to the sides of the chopping block. Nailed securely in place, the shoes also serve as handles to move the block.



To rule the rivers get back to the source

(From the Manitoba Co-operator)

ONCE again the people of the Red and Assiniboine Valleys are battling floods. Once again the loss in damage, erosion and worry will be tremendous. Just how tremendous has never been computed.

Can anything be done to control these floods? Yes!

How? By sane conservation. What do we mean, conservation? By conservation we mean the use of all our resources of lands and waters for the greatest good of the greatest number of people over the longest time.

When we let waters run loose, they stampede in floods like mustangs. Too often we fight this wild stampede in panic; and only later on remember that the stampeding mustangs can be harnessed and put to work. This is summed up in the age-old maxim of the Chinese: "To rule the rivers, rule the hills."

That is, while we are building dikes to keep the rivers from our doors, let us remember that the ounce of prevention which is worth the ton of cure is to harness the water away back where it comes from—before it gets into the main streams. By dealing with those wild horses in small lots, we can train them to useful work.

Every human soul living on the lands drained by these streams has a stake in the work which must be done to bring the waters that run off these valleys under management. It is clear that folks in flooded towns and cities are vitally interested; and, just as certainly, so is every farmer whose lands drain into these rivers.

In July, 1947, 48,000 tons of silt were carried down the Assiniboine River every day. That is, one inch of soil off 424 acres — every day.

That soil didn't all come from the Portage Plains, or Brandon. Some of it was carried by running water off fields around Hartney, Minnedosa, Moose Jaw, Kelvington — and all over the 59,550 square miles that drain into the Assiniboine. Every community, every human in that area (and on the entire 116,347 square miles drained by the Red) shares in the loss from eroded soil that goes down these rivers every day.

That eroded soil, kept at work on our farms, would mean better homes, equipment, hospitals, education and cash in the bank. Carried off our fields — by rills, runways, ravines and creeks — it becomes only pollution and siltation in the streams, that carry it down to the sea.

What conservation work must we do to fight floods in the Red and Assiniboine? First, establish a Valley Authority which shall represent all the people who live on (and off) the lands drained by these rivers. Second,

work out a conservation plan in which practical and technical farmers and foresters co-operate with engineers, businessmen and officials, to develop necessary management of lands and waters in these valleys. Use our lands so that enough acres grow crops of grass and trees to check water and wind erosion; hold snow; and help water soak into the soil. Use our waters so that it does not all

"I Saw . . ."

One day while walking along a country road I saw . . . a mother skunk with three baby skunks toddling along in the rear. One baby stopped and mewed, and, believe me, it was just like a kitten. They went on for about two rods and turned off into the bush.

Ida S. Knutson.

Etomami, Sask.

The Farm and Ranch Review pays \$1 to observant readers who spot the unusual sights on the prairies and send them in to the Editor.

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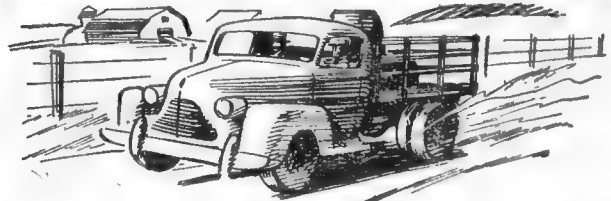
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DISTRIBUTOR — RED DEER, ALTA.

sweep down in one wild stampede in the spring—but millions of tons are held in thousands of farm and community ponds, and behind hundreds of dams on ravines and creeks, and in dozens of marshes and lakes. Then, turn the engineers loose, building bigger works to control the flow when the managed run-

off concentrate in the main streams lower down.

That is what the people of Old Ontario are doing on the Ganaraska and the Humber and 13 rivers "down east". That is what the people of United States are doing — in vast projects like TVA, and in 2,000 conservation districts.

BEST FOR FARM ENGINES



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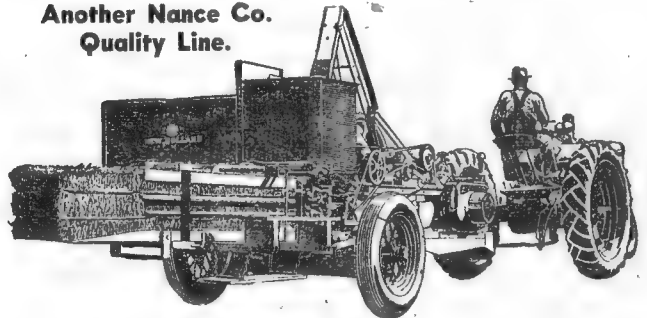
It's "alloyed" to lubricate longer. Peerless reduces sludging and retards the formation of corrosive acids that cause most engine wear. Does a complete lubrication job on all farm equipment.



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The old Empress bridge deserves a special page in our history

By EMIL LORENTSON, BINDLOSS, ALTA.

THE people of the Empress district got a new second-hand bridge over the Red Deer river last year. It's a fine bridge. The approaches are good. It's solid. Everybody likes it, even if it is the old bridge from across the Oldman river at Lethbridge which Lethbridge outgrew. But if this new bridge stands for 50 years it won't rekindle the kind of memories the old one did. There was a bridge with a history!

Back before the First World War the C.P.R. built a big bridge seven miles east of Empress. It was more than half a mile long. That got the homesteaders thinking that it would be nice to have a traffic bridge over the Red Deer at Empress. They sent a delegation to interview the Alberta Government, but the answer was no.

So for quite a while all that happened was talk. Then the chief C.P.R. bridge engineer and the boss pile-driver, who had come to live in Empress, got an idea. If the people of the district would provide the material and the labor, they'd engineer

and paid all the workers and cash contributors. On March 27th the bridge was nearly completed so we were to have a big opening dance, which we did, in spite of the fact we had lost part of our bridge.

It was a 50-foot span, piling bridge, capable of carrying 20 tons.

The bridge was O.K. for still water or a small stream. Now, there was no data of the severity of the Red Deer, and, with such short spans, it created an ice jam. It had taken several flocs without harm, but a big one, which had jammed for miles, came along and jammed so badly that they figured it would be best to use dynamite to break the jam.

Well it loosened the jam, and ruined one of the piers too. The ice flow wrecked one pier so badly that it let two spans fall down. They were well made and stayed intact. The boys floated them into shore and not one stick was lost.

Well, under the able foremanship of Jack Hidemark the bridge was redrafted to 150-ft.



and supervise the job. People started taking up collections and to everybody's astonishment, they soon had \$10,000 pledged.

Everybody wanted to help. The settlers offered their time and their tools. Regular plans and blue-prints were drafted and in 1917 we started to build a bridge 600 feet long.

The day they started to build the necessary shacks and get the boilers installed it was 51 below. There were long sieges that winter of worse than 30 below weather, but it didn't stop the bridge building.

Everybody was young and eager for a bridge so the homesteaders came from every direction to help out.

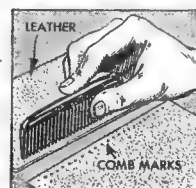
Well the work progressed very rapidly under the able supervision of these C.P.R. men and willing homesteaders. When the minister of public works of the day noted that, he couldn't help but to admit we were the most enterprising people he had ever seen. He decided to help those who were so willing to help themselves.

In view of that the Alberta government took the job over

spans; was completed that summer and gave good service for thirty years.

For man-hours of labor, the Empress job stands as a record, and there is no other record of a group of business men and homesteaders ever having attempted to build that long a bridge on their own. Truly a noteworthy gesture of co-operation. The minister of public works was justified in saying that Empress had the most enterprising people he'd ever met.

COMB MARKS LEATHER FOR PUNCHING



INDEX marks for punching

leather prior to lacing two pieces together can be made quickly and evenly with a coarse-tooth

comb on the leather so that the teeth leave a row of clear impressions and punch through the impressions with an awl or other sharp instrument. To make sure that the holes are spaced identically in both pieces, the indented piece can be positioned over the other one before punching the holes.

Some Do



And Some Don't



Some cats like their milk direct from the cow, and some demand saucer service. In the upper picture, sent in by Mrs. Alex Smyth of Hillspring, Alta., Helen Climenhaga of Kindersley, Sask., successfully hits the cat's mouth. But little Faith Reichert of Glenside, Sask., right, is spurned by her cat. Mrs. William Reichert sent us this picture.

Water soaked furniture is difficult to restore

FAMILIES in flooded areas will soon be inspecting water-soaked furniture with the hope that it can be reconditioned and refinished.

The outlook is not encouraging, says Mrs. Florence P. Day, home management agent of NDAC Extension Service. Veneer loosens and warps. Glue softens or dissolves completely, and spliced pieces come apart. The padding on overstuffed furniture becomes stale and musty and the webbing rots, if the piece is badly soaked.

"Furniture should be dried out and the frame work checked," Mrs. Day suggests. "If regluing is necessary the piece should be put in braces until the glue is thoroughly set and dry.

- There isn't a parallel of latitude but thinks it would have been the equator if it had its rights.

—Mark Twain.

Plain chairs can then be refinished. Cupboards and dressers will need to have each drawer and framework thoroughly checked and made substantial. Plain pieces can then be refinished."

Overstuffed pieces will probably have to be entirely reupholstered and refinished. The job is not an easy one. If the padding has only a little water in it, possibly it can be washed out and the covering cleaned with one of the foam cleaners found on the market.

House Beautiful

In Oklahoma City, Police Chief L. J. Hilbert hoped that his prisoners would "be more contented" as soon as he got that blinding red paint off the walls of the jail, replaced it with some creamy whites, restful greens and pastel blues.

Fifth Column

In Hackensack, N.J., the meeting of the Berger County Republican Committee was well

under way when a dozen delegates got up and apologized for having blundered into the wrong room, sheepishly moved next door to the Democratic meeting.

Love Story

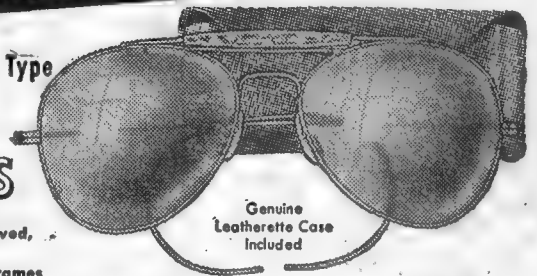
In Miami, Harold E. Adkins, charged with stealing \$40 from Lily McCoy, won a dismissal when he announced: "We're married. We fell in love while she was trying to get me to return the money."

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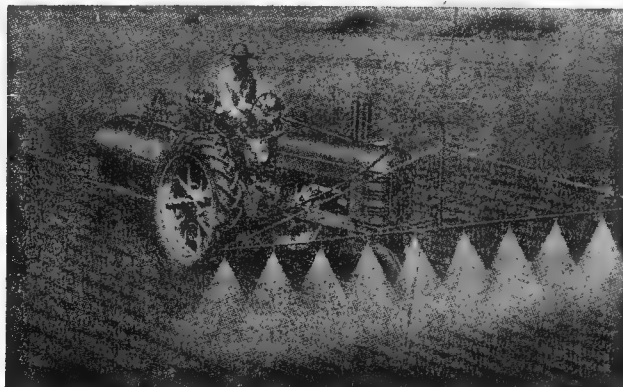
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Clue

In Seminole, Okla., police anticipated no trouble in running down Max Skinner, wanted for passing a bad cheque: he has a skull and crossbones tattooed on his forehead.



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Sold by all Leading Stores.

Alcoholic animals

(From New York Times)

COWS—When his cows continued coming in from pasture so drunk that they had to be milked lying down, a farmer near Vancouver, B.C., called in a supervisor of the local cow-testing association. His diagnosis was that the cows had eaten fallen apples which had fermented.

SQUIRREL — In Geneva, Switzerland, a woman found a squirrel lying on a bed in her villa. First thinking it was dead, she later discovered it breathing. Then she noticed that a large box of liqueur chocolates on her dressing table was empty. The squirrel sobered up later in the day and made off with a slight hiccup.

PIG—In Tulsa, Okla., sheriff's deputies watched a drunken pig lurch down the street. Then followed it straight to the drain pipe of a still.

DUCKS—Whitehall, N.Y., citizens observed dozens of tame

ducks staggering about the streets and quacking offkey. It was all the result of an accident—a beer truck had crashed and the ducks had received their first taste of an intoxicating beverage out of the broken bottles.

MOUSE—In Galesburg, Ill., a police-station custodian found a mouse reposing happily in a near-empty whisky bottle. The rodent had grown so big, living on whisky after crawling in, that it could not get out again. When the custodian broke the bottle to release the mouse, it tried to run out, but collapsed in a drunken stupor.

BEAR — In the Tennessee hills there lives a bear which seems to know bad whisky when he tastes it. While Alcohol Tax Unit agents were waiting to trap the owner of a still they had just found, the bear lumbered out of the forest and decided to sample the product. He rolled it around his tongue and then smashed the still to pieces. Their evidence destroyed, the revenue men went home.

RATS — A Berkeley, Calif., exterminator announced his remarkable success in catching rats by feeding them frozen pudding flavored with sherry. He gets the rats so drunk that he can catch them with his bare hands, he says.

RABBITS — The rum-and-brandy method of catching is being used in New South Wales, where rabbits are made drunk and then gathered up.

—Paul Steiner.

Time Out

In Massillon, Ohio, City Auditor Edgar L. Lash gave an explanation of why he had turned down a minor expenditure for the local fire department: "There should be a fireman on duty 24 hours a day (and) I see no reason for an alarm clock."

"I Saw . . ."

The other day Mom was cleaning a fish. She hit it on the head to kill it. She cleaned it; cut its head off; cut it open and took out the insides. She washed it once and when she put it in the water again and it wiggled around and splashed water on the table and floor. Believe it or not, it's the truth.

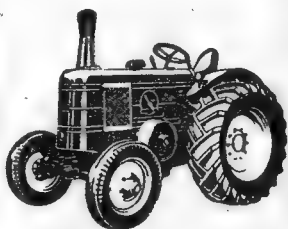
Annie Bartel.

Westbourne, Man.

The Farm and Ranch Review pays \$1 to observant readers who spot the unusual sights on the prairies and send them in to the Editor.

HERE IT IS...

The New 1950
SERIES 3
FIELD-MARSHALL



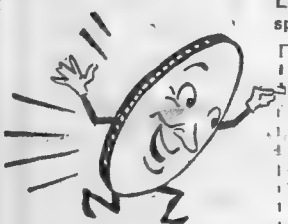
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3. Unique fool-proof cartridge starter means quick starts in coldest weather.
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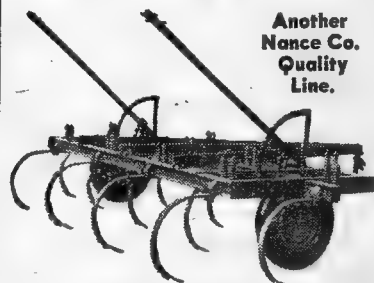
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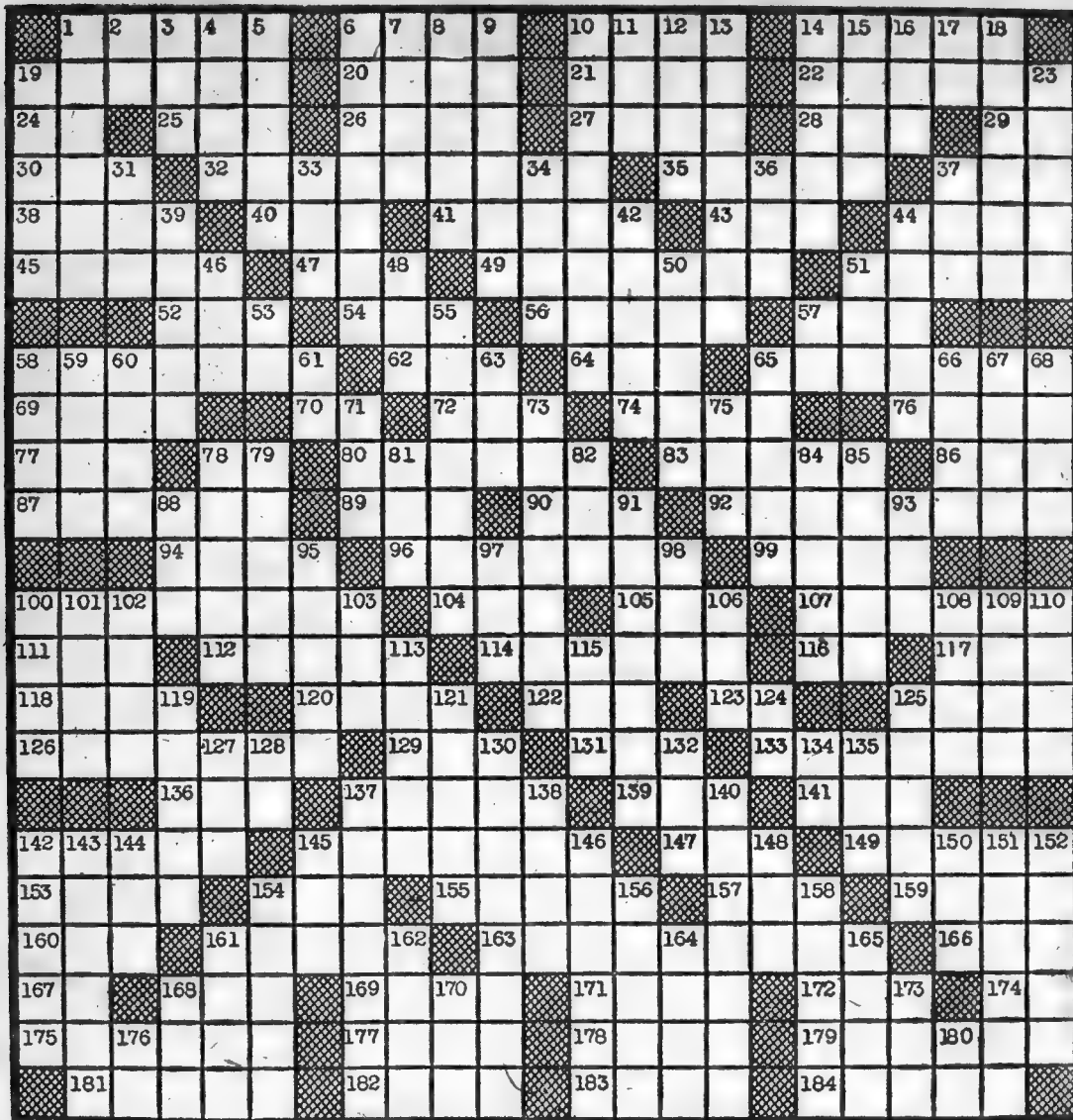
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| 22 Kind of decoration | 72 Youth | 145 Bombast |
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| 29 Preposition | 83 Sly looks | 157 Wheel tooth |
| 30 Brim | 86 Sister | 159 Copperfield's wife |
| 32 Groups | 87 To stay | 160 Branch |
| 35 Sea nymph | 89 To silence | 161 Morbid poison |
| 37 Vehicle | 90 Land measure | 163 Old French coin (pl.) |
| 38 Egyptian goddess | 92 Regulated | 166 Colloquial: child |
| 40 Hurried | 94 North African | 167 Japanese measure |
| 41 Auriculate | 96 Mourned | 168 To winnow |
| 43 Knock | 99 New star | 169 Piece of jewelry |
| 44 Fruit center | 100 Sent back | 171 Colored |
| 45 Amphibian mammal | 104 Mournful | 172 Siamese coin |
| 47 German article | 105 To cut | 174 Prefix: down |
| 49 Settles | 107 Italian port | 175 A kind of sheep |
| 51 Inferior animal | 111 Armpit | 177 Bad |
| 52 Prepare skins | 112 Number | 178 Anglo-Saxon slave |
| 54 Candle | 114 Hebrew priest | 179 Awakes |
| 56 Disturbs | 116 Teutonic deity | 181 Satisfies |
| | 117 Spat | 182 Auction |
| | 118 Evils | 183 Obnoxious plant |
| | 120 French: friends | 184 Narrow roads |
| | 122 To excavate | |
| | 123 Sloth | |
| | 125 To be fond | |
| | 126 Pertaining to side | |
| | 129 Clear | |

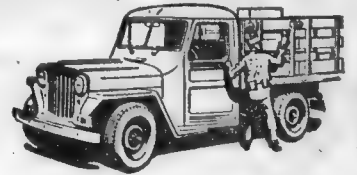
VERTICAL

- | | | |
|------------------------|----------------------|----------------------------|
| 1 One versed in law | 57 Hebrew letter | 115 Force |
| 2 Preposition | 58 Moslem leader | 119 Mended |
| 3 Small speck | 59 Joint | 121 Causes to sit down |
| 4 Kind of tree (pl.) | 60 The chick-pea | 124 Exists |
| 5 Spanish title | 61 Hence | 125 Fear |
| 6 Discolored | 63 To make lace | 127 Gun (sl.) |
| 7 Arrow head | 65 Quantity of yarn | 128 Indefinite article |
| 8 Winged | 66 Argot | 130 Three cornered figure |
| 9 Rejection | 67 Loyal | 132 Affirmative |
| 10 Analyzes | 68 To transmit | 134 Tantalum (sym.) |
| 11 Beverage | 71 To weary | 135 Ovum |
| 12 Cut slantingly | 73 Scoffed at | 137 Time yet to come (pl.) |
| 13 Ironical writings | 75 Color | 138 Norse tale |
| 14 To move stealthily | 78 Felices | 140 Withdrew |
| 15 Wind instrument | 79 Positive pole | 142 Luckpiece |
| 16 Card | 81 Pike-like fish | 143 Eagle's nests |
| 17 Artificial language | 82 Descendant | 144 Male sheep |
| 18 Cleans | 84 To test | 145 Distant |
| 19 Page number | 85 To part | 146 Relative |
| 23 Attack | 88 Chalice | 148 Cry of dove |
| 31 Snare | 91 Pleasure | 150 Bright saying |
| 33 Ill-bred fellow | 93 Container | 151 Eats away |
| 34 Love deity | 95 Baltic port | 152 Classifies |
| 36 Ethiopian title | 97 Chum | 154 Island off Greece |
| 37 Neck wrap | 98 Period | 156 Drunkard |
| 39 Bristles | 100 To scold | 158 Twist |
| 42 Milk store | 101 Girl's name | 161 Wind gauge |
| 44 Waxed | 102 Germinated grain | 162 Hindu goddess |
| 46 Syncopated | 103 Democrat (abbr.) | 164 Unaspirated |
| 48 To tear | 106 Legume | 165 Portico |
| 50 Army unit | 108 Metal | 168 Suitable |
| 51 Babylonian god | 109 Pigeon's home | 170 Nothing |
| 53 Pronoun | 110 Wide-mouthed jug | 173 Cask |
| 55 Furs of animals | 113 Baseball teams | 176 Sun god |
| | | 180 Compass point |

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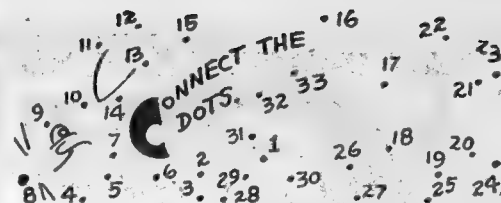
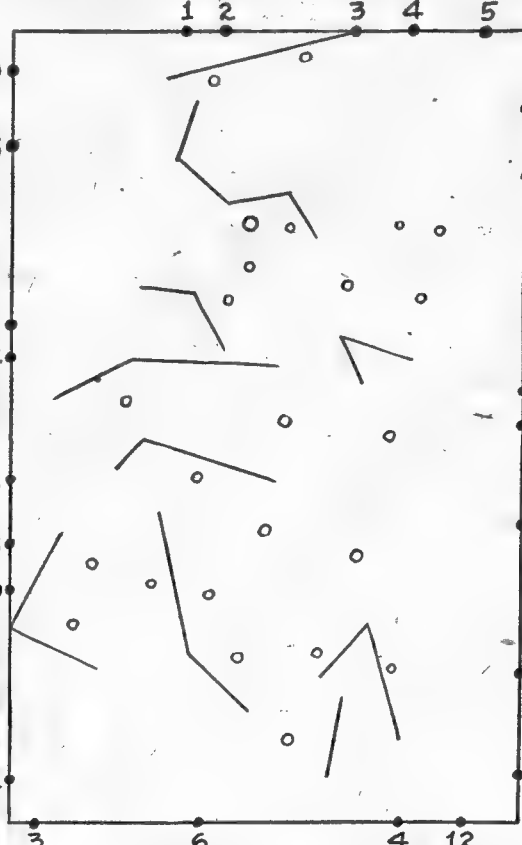
BY
A.W. NUGENT
THE WORLD'S
LEADING
PUZZLEMAKER



INWARD WORDS. PRINT THE NAMES OF 4 CREATURES READING INWARD, ALL OF WHICH END WITH THE SAME CENTRAL LETTER.

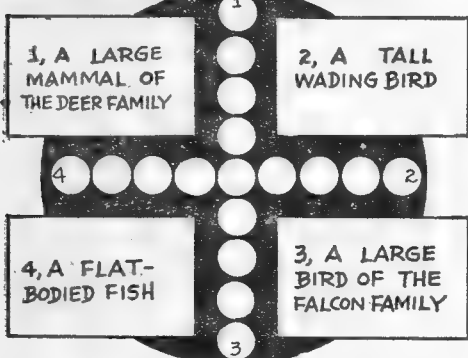
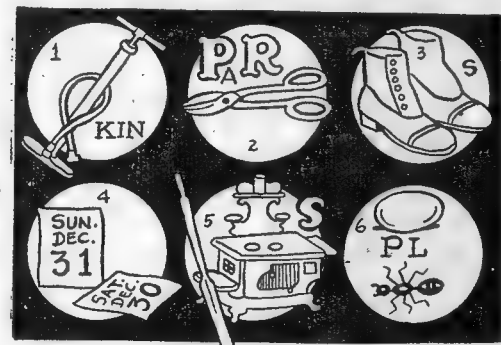
MAGIC DRAWING

WATCH THE CLOWN'S PET APPEAR FROM NOWHERE. FIRST CONNECT EACH PAIR OF LIKE NUMBERED DOTS, USING A RULER. THEN SHADE IN ALL THE SECTIONS IN WHICH THERE IS AN O.

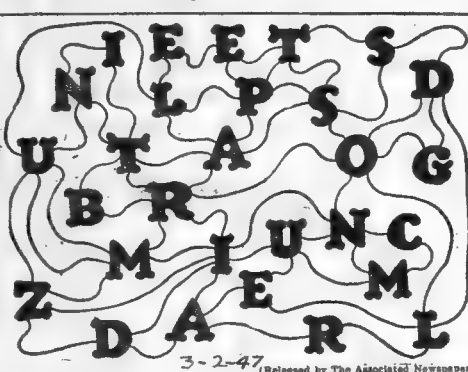


Rebus Pictures

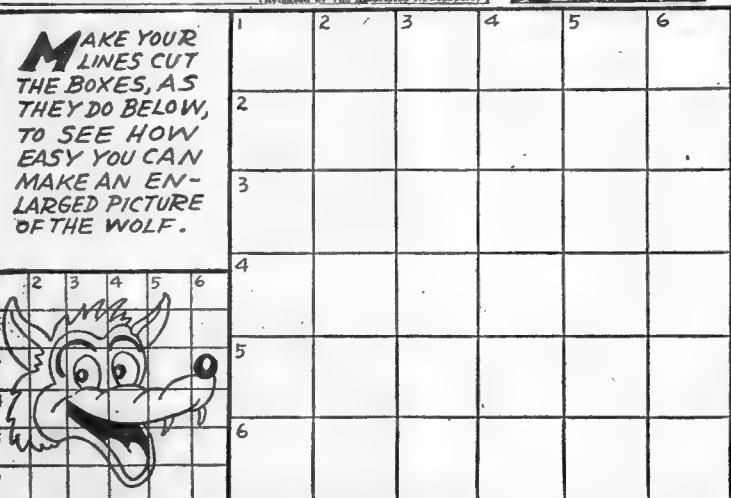
EACH SKETCH REPRESENTS THE NAME OF A FRUIT OR A VEGETABLE. WHAT ARE THEY?



START AT CERTAIN LETTERS AND MOVE ALONG A LINE TO THE NEXT LETTER TO SEE IF YOU CAN SPELL THE NAMES OF TEN METALS.

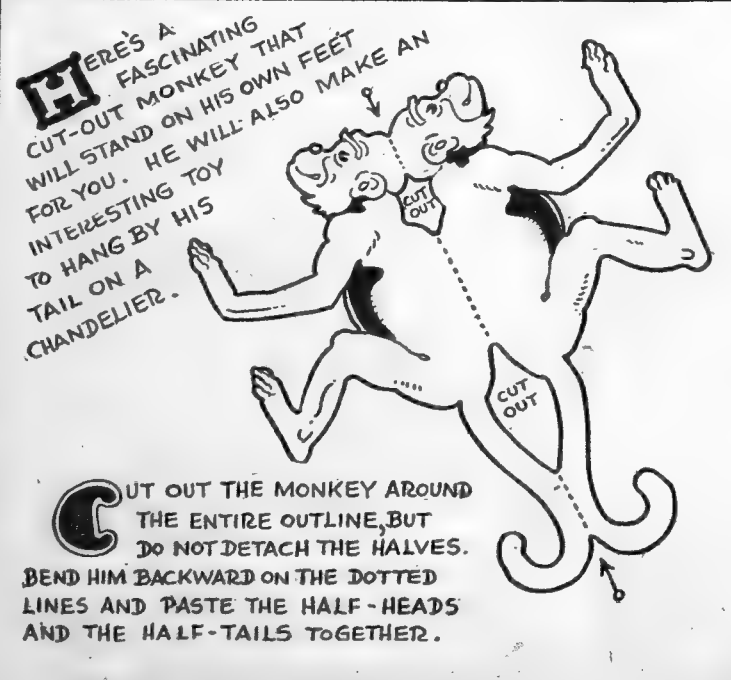
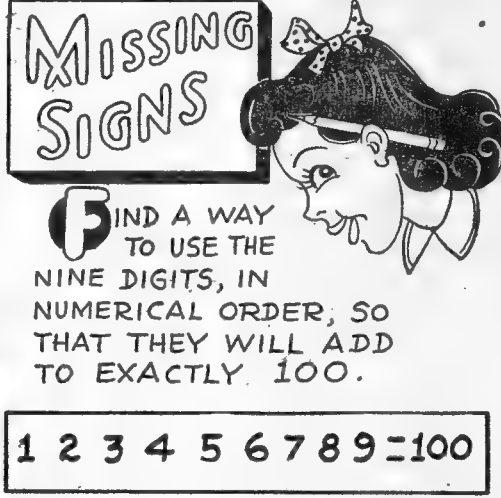
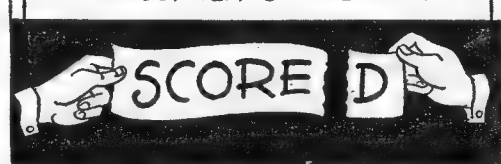


SOLUTIONS:
1. TO KEEP OFF THE CHAPS, 2. BECAUSE IT IS THE LATTER END OF PORK.



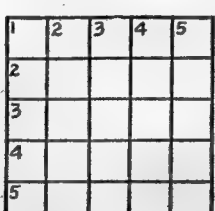
A Tricky Trick

CHALLENGE YOUR FRIENDS TO TAKE ONE FROM SIX AND LEAVE TWENTY. WHEN THEY FAIL, YOU SIMPLY PRINT THE LETTERS "SCORED," A WORD OF SIX LETTERS. THEN TEAR OFF THE LETTER "D" LEAVING THE WORD "SCORE" WHICH, OF COURSE, MEANS TWENTY.



MAKE THE SAME WORDS READ ACROSS AS DOWN. THE DEFINITIONS ARE -

- 1, SHELTER;
- 2, A SMALL OVAL FRUIT;
- 3, CLIMBING PLANTS;
- 4, INCIDENT;
- 5, SUPPORTS.



PUZZLE SOLUTIONS

INWARD WORDS:
1, MOOSE; 2, CRANE; 3, EAGLE; 4, SKATE.
3-2-47
FOLLOW ALONG THE LINES FROM LETTER TO LETTER TO SPELL THE FOLLOWING TEN METALS - ALUMINUM, BRASS, GOLD, IRON, LEAD, PLATINUM, RADIUM, STEEL, TIN AND ZINC.
REBUS PICTURES:
1, PUMPKIN; 2, PARSNIPS; 3, PEARS (PAIR S); 4, DATES; 5, ORANGES (OAR RANGE S); 6, EGGPLANT (EGG PL ANT).

MISSING SIGNS:
1+2+3+4+5+6+7+(8x9)=100
WORD - SQUARE: 10

The Farm and Ranch HOUSEWIFE

A CAN Shower CAN Delight!

By LOUISE PRICE BELL

IF you are tired of the general run of bridal showers, here's a canny suggestion. 'Twill be fun to carry out, is practical, and sure to delight. Either cut out sizeable pictures of canned foods from magazine ads, and mount them on cardboard . . . or cut similar ones from pattern . . . or sketch a can. Then neatly print this invitation in a boxy form and paste it in the center of the can, or if can is small, on back. Enclose in envelope, and mail.

Can you come to my home.
Next Thursday at one?
We'll surprise our friend Myrna
(And I hope we'll have fun!)
Bring a can of some food-stuff
That you've used many a day
And attach to its surface
Recipes for a gourmet!

(Sh-h! It's a secret.) Peggy, 45 Palm Drive.

The idea behind this is that everyone has certain recipes that are super-doooper, that she has tried over and over, and which require one particular food, either meat, fish, vegetable or fruit. After receiving the invitations, the young women will browse through their recipe files and come up with one — or maybe two or three — recipes that a new homemaker will prize. Not only that, they will be such tested rules that she won't have the ill luck that is so facetiously attributed to new brides.

She'll have a fine start on two counts . . . a goodly supply of excellent canned foods for her pantry shelf, and the recipes which she will use to the very best advantage. If the donors have more than one recipe that they think should be passed on, these will be attached to the cans they bring to the shower.

Asking the guests for one, means luncheon, of course. In keeping with the theme of the shower everything served should be canned. For instance you might serve either chilled or hot consomme, canned beaten biscuits, a fruit salad made from canned fruits, and a dessert made from canned condensed milk. Tea or coffee is from cans, so either beverage would be consistent. Or, you might prefer a canned fish casserole to which canned ripe olives and other canned ingredients were added, head lettuce with canned French dressing, and a canned plum pudding for dessert. Check your favorite luncheon recipes and make up your meal from the best ones that require as little other than canned foods as possible.

Because the hostess often likes to give the guest of honor something "extra", the centerpiece

might be an interesting arrangement of canned foods . . . small cans holding just enough for two, and of rare and perhaps exotic food-stuffs. By experimenting a bit, you'll find that you can work out something really gay. If you aren't over-ingenuous, just pile the small cans in an attractive basket, surround it with greenery or flowers at its base, and stick a few green sprays among the cans. For these cans, fold the recipes suggesting their usage and paste to bottom, so they won't show and spoil the effect of the gay labels and deprive the guests of seeing what the centerpiece holds. You'll find this type of centerpiece will be a real conversation piece.

If you want a game that is suitable to play after luncheon, pass out lists with the following words or phrases, and tell the players that they must place synonyms that begin with can opposite each one. Set a time limit, then collect papers, or have the girls "pass them", and correct. The winner, or winners, should receive a large can of some specially good canned food, or a booklet on canning, or a good can-opener. The one with the lowest score should receive a can of ketchup to help her "catch-up" with her competitors. — This list may be too long, too easy,

or too hard, but you can add or delete to suit your group.

Bracket, support	cantilever
A bird	canary
Moving backward	cancrizans
Container	canister
Tropical plant	Canna
To strike out	cancel
Type of singing	cant
Flamboyant dance of 1830's	can-can
Singer	Cantor
Part of poem	canto
Seasoned meat roll	cannelon
Flask	canteen
Light boat	canoe
Heavy cloth	canvas
Shrewd	canny
Eater of own kind	cannibal
Office-seeker	candidate
Deep ravine	canyon
Chinese city	Canton
Protective covering	canopy
Choral composition	cantanta
Ecclesiastical law	canon
Fruit	cantaloupe
Dread disease	cancer
Easy gallop	canter
Frank, sincere	candid
Garden annual	candy-tuft
English city	Canterbury
Unpleasant skin abrasion	canker
Watercourse	canal
Open-faced sandwiches	canapes
Confection	candy
Kind of coal	cannel

□ □ □

Beginning at home

MENTAL health begins at home. Medical men know that the foundation of good mental health is laid in childhood . . . the child who grows up in a happy home where he is loved and wanted has a far better chance of normal mental adjustment than the child whose family life is the scene of continual bickering and disagreement. Your child's mental health may be largely in your hands.

□ □ □

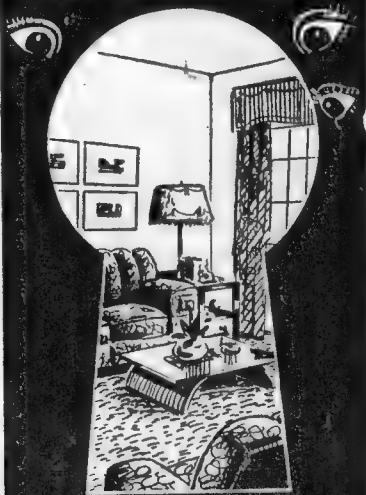
To protect a child's good looks and dental health, careful attention should be given to the baby teeth. It is possible that improper care of baby teeth will cause dental difficulties throughout life.

The Dishpan Philosopher

I SOMETIMES wonder who are "They" who always have so much to say. For "They" say this and "They" say that and have their stories all down pat. There's not a rumor goes around but what can, when it's probed, be found as started out upon its way by the mysterious voice of "They". "They" know it all from first to last and never let a chance go past to hold forth all about who's who, and what the neighbors say and do. And, more than that, by some queer kink, "They" even know what people think. And life is filled day after day with news and views outlined by "They".

I don't know whether we should plan meanderings of "They" to ban. And if we did decide we should I'm not so certain that we could. But everybody is at fault who takes "They" with no grain of salt.

TAKE A PEEK



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**SUMPTUOUS
SWEET-FILLED BRAID**



Make this Gorgeous Treat with Wonderful New Fast DRY Yeast!

Such a scrumptious dessert! Save it for a party?—not a bit of it! Make it now—easily, speedily with Fleischmann's grand new Dry Yeast—the kind that keeps potent and fast-rising 'right' in an envelope on your shelf!

Imagine the convenience! No more quick-spoiling cakes of yeast!

No more tired, slow-rising yeast! No more yeast in the icebox! New Fleischmann's Royal Fast Rising Dry Yeast keeps all its potency till the very moment you use it.

Now see how easy yeast baking can be. See what grand results! Get a dozen packages of Fleischmann's Royal Fast Rising Dry Yeast—it keeps in your cupboard!

SUMPTUOUS SWEET-FILLED BRAID (Makes 2 large braids)

Scald
 ¾ cup milk
 ¼ cup granulated sugar
 1½ teaspoons salt
 3 tablespoons shortening
 Remove from heat and cool to lukewarm. In the meantime, measure into a large bowl
 ½ cup lukewarm water
 1 teaspoon granulated sugar
 and stir until sugar is dissolved.
 Sprinkle with contents of
 1 envelope Fleischmann's Royal Fast Rising Dry Yeast
 Let stand 10 minutes, THEN stir well; stir in cooled milk mixture and
 1 well-beaten egg
 Stir in
 2 cups once-sifted bread flour
 and beat until smooth; work in
 2½ cups (about) once-sifted bread flour
 Turn out on lightly-floured board and knead dough lightly until smooth and elastic. Place in a greased bowl, brush top with melted butter or shortening. Cover and set dough in warm place, free from draught and let rise until doubled in bulk. While dough is rising, combine
 1 slightly-beaten egg
 2 tablespoons cream
 ¾ teaspoon vanilla
 ¼ cup brown sugar (lightly pressed down)
 ¼ cup sifted dry bread crumbs
 1 cup finely-chopped filberts
 ½ cup chopped candied peel
 Punch down dough and divide into 2 equal portions; form into smooth balls. Roll each

piece into an oblong 10 inches long and 7 inches wide; loosen dough. Spread each oblong with

2 tablespoons soft butter or margarine

and spread with the filbert mixture. Beginning at a long edge, roll up each piece, jelly-roll fashion; seal edges and ends. Roll out into oblongs 12 inches long and 6 inches wide; loosen dough. Cut each oblong into 3 lengthwise strips to within an inch of one end. Braid strips, seal the ends and tuck them under braids. Place on greased cookie sheets. Grease tops. Cover and let rise until doubled in bulk. Bake in moderately hot oven, 375°, about 25 minutes. Cool. Fill crevices of braids with thick jam or butterscotch cream filling; frost with confectioners' icing and sprinkle with coarsely-chopped filberts.



AUNT SAL SUGGESTS--

*Oh, June, it is a lovely month,
 —But it is busy too;
 Let's talk of hints that assist,
 To lighten it for you.*

A GAIN as the summer time comes I find myself with the big urge to clear the decks of my home. You know what I mean, don't you? That cool uncluttered look is what we should aim for, it seems to me. With outside work and play calling us we aren't giving ourselves a fair deal if we make our homes as cumbersome as possible. Lay away those extra doilies, drapes and what nots and if we must have a few of them around keep them simple.

Seems to me I'm forever using the word simple. It reminds me of a little joke my close friends used to plague me with many years back when I first went out teaching in a country school. Because I had come from the city some of the folks in that rural locality seemed surprised because I didn't act uppity and they said of me, "She's so simple and common". When I repeated this to my girlhood friends they chuckled and remarked: "Simple (that's half-witted) and common (that's worse yet)". And so for years I heard myself described as "simple and common".

Our words can have such diver meanings. And for that matter objects about us can have very different uses too. It has been a hobby of mine to seek out various ways that we can use the everyday commodities that stand on our pantry shelves. Fashions in dress and hair arrangement have a way of swinging back to the old familiar styles and cooking recipes do likewise.

I added another cook book to my collection this past month. It is a dilly and I only wish I could tell you where to procure one too. But unfortunately it happens to be out of print. It was only through the kindness of a well-meaning friend I was able to get it. From time to time, however, I'll share some of its recipes with you, as I test them out. This was the first one I tried. It is a spice cookie of the drop variety that really stays soft.

Perfect Raisin Drops

Boil briskly for 5 minutes 2 cups raisins and 1 cup water. Then stir in 1 tsp. soda and set aside to cool. While cooling mix up the following: 1 cup shortening, 2 cups brown sugar, 3 well beaten eggs, 3 cups plus 3 tbsps. all-purpose flour, ½ tsp. salt, 1 tsp. cinnamon, 1 cup chopped nuts (optional. I omitted them), 1 tsp. vanilla, 1 tsp. baking powder, ¼ tsp. nutmeg. Then stir in the first mixture. These swell quite a bit so allow plenty of space.

For those who do not like raisins there is this alternative and it is very good too. I boiled dates instead and in place of

brown sugar I used white and omitted the spices.

I think after trying out this recipe you'll follow my lead and cache this recipe away until next Christmas and make them for yuletide cookies with more fruits in them.

So many of us during the hot months like to keep baking down to a twice weekly routine so with plenty of cookies on hand this meets our dessert needs along with ice cream or fruit salads. So I'm going to give you another cookie recipe from the same book. It was a really new one to me. Of course if you don't cotton to pineapple this recipe is definitely out as far as you are concerned.

Pineapple Dream Drops

½ cup shortening, 1 cup brown sugar, 1 egg, vanilla, ½ cup drained crushed pineapple, 2 cups flour, 1 tsp. baking powder, 1 tsp. soda, ½ tsp. salt, ½ cup raisins. Combine the first five ingredients. Then sift and mix all dry ingredients and combine two mixtures. Drop onto well greased cookie sheets. They spread a lot. Bake about 12 minutes in medium hot oven.

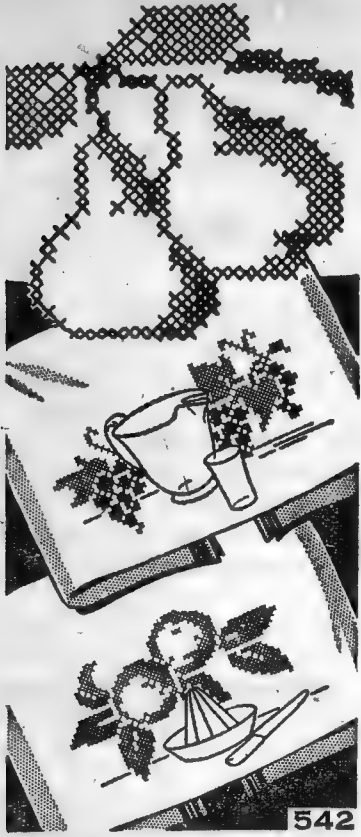
Seems to me I've been running more odd recipes for cookies and drops lately (it may be I've unconsciously been on the look-out for them). I always say a pie or cake is only good when fresh, but a cookie jar or can should never be empty. Have you tried this trick of softening up hard cookies by giving them a belated frosting or sticking them together with a date or fig filling? They will soften up again and taste like brand new!

Remember, too, that a pared potato is just as good as a pared apple for softening fruit cakes or cookies.

And another use for that much-used potato that some of us forget, it can be used for a burn for it contains tannic acid as well as tea. Make a plaster of grated raw potato and see how soothing it is. This can be a friend in need when a case of sunburn crops up in the family circle.

And here's a health trick that is new to me. I got it straight from my family doctor and I warned him I was quoting him (and he didn't send me a bill either). For those aggravating cold sores that pounce on us at unseemly times moisten an aspirin tablet and rub on them. Of course like most human ailments it is a case of "prevention is better than cure": in my own case I find that too acid foods, like too many pickles, bring on a cold sore quicker than anything else. But, oh, isn't it a hard thing to resist the pickle dish, especially if it contains luscious cherry pickles like a neighbor gave me yesterday. Oh, they are yummy with salad or cold meat. She promised me the recipe and I'll pass it on to you next month.

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□ □ □

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Year-round blouse in a crochet stitch, easy to memorize. Pattern 852; directions, sizes 12 - 14; 16 - 18.

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Country Diary

WE have had other springs in which adverse weather has delayed planting and sowing beyond the official time, but according to the old tillers of the soil, this year Nature has stood still for the longest time in memory. In my opinion there is plenty of evidence that our weather cycle is taking a turn of the wheel, as it were. Meteorologists who chart temperatures will probably not agree, but most farmers I know will tell you that our seasons are changing. For the past seven or eight years prairie springs have been later — winter has lingered into April, and even early May.

Suddenly, it seems, comes a wonderful, warm June day. I am entranced by the beauty of the dawn, the singing of the early choirs in the trees, the aromatic, resinous scent of the Balm of Gileads and the fragrance of yellow-starred wolfwillow in the pure morning air. June in any land has its special sweetness, and these fragrances are Alberta's magic. And the next day its' actually summer, so swiftly does it arrive and possess the land. A short, swift summer — yes. But crammed with beauty of rich, bright growth, vivid colouring and scent. I ought to go back and mention the scent of the wild rose, spreading its misty pink on roadside banks. Nowhere is it so sweet as in its native Alberta. On the Pacific slope it is devoid of perfume and not nearly so rich a pink. Nature is prodigal with her gifts for prairie summer.

Colourful June is splashed with gold on roadsides, along fences and in corners of fields. In field and garden and lawn, dandelions are rank weeds, despised and hunted, but these outlaws from cultivated places are dashing gay fellows indeed, thriving and growing in spite of severe discouragement. Though a menace to farmer and gardener, same people, and practically all children, tired and eye-weary of winter's monotone, express delight in the brilliant yellow blooms massed by thousands on some site untended by man. Since we must have them (and it seems they will always be with us) it is well to know that dandelions can be put to good use by the economically-minded provider of meals, who sends you forth with a large basket to fill with only the medium and small leaves. It takes a large basketful for the average "mess of greens". Cooked with a piece of salt pork — not too fat, as the lean imparts a special flavour to the greens, and vice-versa; or cooked alone in a minimum of water, they make a delicious, nutritious addition to the menu, and act as an appetizer to jaded winter palates.

One of the timeless miracles of the universe happens in June with infinitesimal exactitude — the solstice, when the lengthening day reaches its apex. Then we have the long, mellow twilight hour. Then the day meets night as shadows lengthen; half-lights tint the landscape, trees wave their soft tracery against the roseate sunset, the last rays of which paint a kindlier scene than daylight has ever known. Farm windows glow with reflection and flash their crimsoned signals, then grow dim. Then the robin perches at the tip of the poplar tree to pipe the sun to bed, and shadows at last join the darkness of June's brief night.

□ □ □

Picnic package

THE success of a picnic depends largely on the food that is taken along. A day in the out-of-doors sharpens appetites and makes mealtime an important event. Fresh vegetables can be kept crisp and moist by packing them in a covered glass jar, plastic bag or waxed paper. Other standard picnic items that always help fill the bill include hard-boiled eggs, cheese, tomatoes, lettuce, celery and fruits.

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LET'S ASK AUNT SAL

May every task seem lighter,
In this pleasant month of June:
If you need help, just write Aunt Sal,
And she will answer soon.

Question: I have a plaster-of-paris parrot which I broke. It is a clean break but I don't know how to mend it?—(Mrs. J. M., Taber.)

Answer: I had the same sad luck with my plaster-of-paris horse. I mended it very satisfactorily with plastic glue. Ask your hardware dealer about this... it is easy to use and so handy.

Question: How can I repair the enamel that has chipped off my kitchen range. I thought you might know of something new on the market to help.—(Mrs. E. J. P., Grayson, Sask.)

Answer: I'm sorry that I do not know of anything new... all paints so far have proved unsatisfactory for they would turn yellow when the stove became hot. My most up-to-date household bulletins are still quoting that very old remedy back from our grandparents' day. I think I've quoted it before in this column. You combine equal parts of salt, soft putty and sifted coal ashes. (Note: For all questions such as the two quoted above I'd advise you to consult hardware and paint dealers. New products are coming out on the market right along and sometimes one dealer has such aids ahead of another.)

Several queries have come in from those who have tried out one of the cheese recipes and did not have good success with them. Well, remember, friends, I admitted that I had never made cheese myself, but all the recipes I quoted came to me from home makers who had tried them. I forwarded all your queries to those who had sent me the recipes and asked them to write you direct. I hope they have done so and that all is happy on the cheese front!

Question: I have a fawn gabardine coat that is beginning to look quite soiled. I have been told that if I get it dry

cleaned it won't be rain resistant any more. Is that true? Could you tell me how it can be washed and still stay water-proof? — C. H., Maple Creek, Sask.

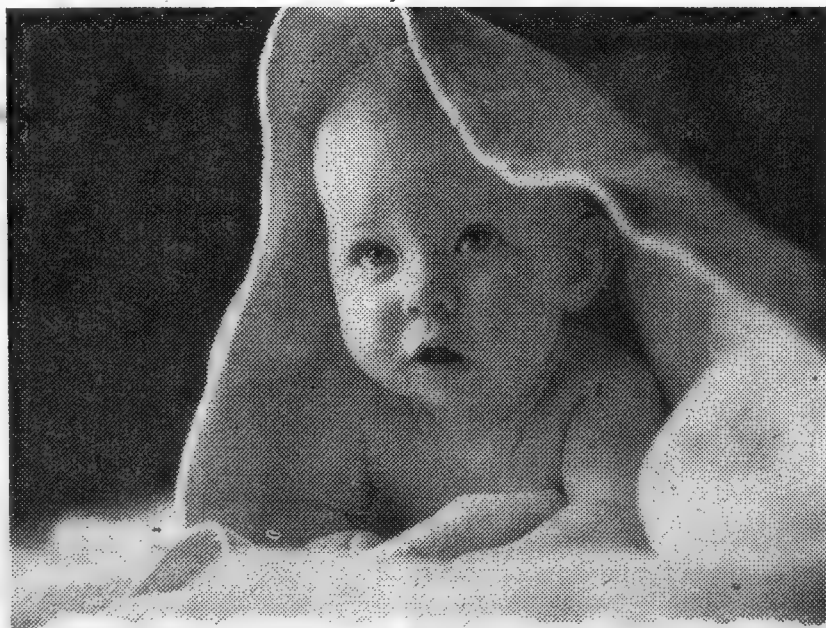
Answer: I am afraid your friends are partly true in their predictions regarding destroying the water-proof qualities of the coat. At least dry cleaning generally makes it quite limp. If you feel like tackling the job of washing the coat it would be a good idea to rub glycerin on all the soiled spots and leave on for a time before washing. Much soil can be removed by making a paste of corn starch and carbon tetrachloride and rubbing on the spots... leave on for a time then brush off.

Question: You published a recipe for "Feather Cake" some months back. I've mislaid it and cannot find the amount of flour used. Here are the other ingredients to remind you. Four egg yolks and $\frac{3}{4}$ cup cold water. Beat until you have one quart liquid. Gradually beat in $1\frac{1}{4}$ cups granulated sugar. Add $\frac{1}{4}$ tsp. salt and 1 tsp. vanilla. Beat well one minute. Lastly, add 4 stiffly whipped egg whites. I am sure there was flour in this... but how much?—(Mrs. W. S. F., Edmonton.)

Answer: Yes, there was one cup of sifted cake flour... I have a confession to make. I'm sure this was the cake that Miss Olson called my attention to and noticed I'd omitted the flour... but it was too late to rectify the error then... I thought I always made a point of checking and double checking all recipes... but there comes a time when we do slip up and I guess this was my time to do so.

Note: All readers are invited to send in their home-making problems to Aunt Sal. Address your letters to AUNT SAL, IN CARE OF THE FARM AND RANCH REVIEW, CALGARY, ALBERTA. If you wish a private reply enclose stamped, self-addressed envelope. There is no charge for this service.

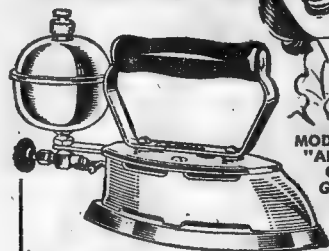
"What? You Don't Say!"



This is Cheryl Lynn Strain, daughter of Mr. and Mrs. Harry Strain of Bluffton, Alta. The picture was taken by a neighbor, Fred G. Schultz.

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French Dressing

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- 1 teaspoon salt Keen's Mustard

Place the ingredients in a glass jar. Just before serving, shake the contents well.

For free recipe book, "Culinary Art", write to Reckitt & Colman (Canada) Ltd., Station T., Montreal.



K 106

It's Strawberry Time!

By LOUISE PRICE BELL

AS soon as the luscious red strawberry comes in season everyone longs for all sorts of desserts in which the berries are included . . . for salads containing the juicy red bits . . . and for any other ways of serving them. Their season is all too short, so fortunate the home garden that boasts these popular berries. Nothing is more delicious than a mound of the wall-washed berries, still with hulls, arranged around a mound of powdered sugar for dipping-as-you-eat. Next to that yummy way of serving them comes the ever-popular shortcake, made with regular rich baking-powder biscuit dough, smothered in berries and topped with whipped cream.

Include strawberries in your fruit salads. If cantalopes are not too expensive, a delicious salad can be quickly made from melon halves piled with grapefruit or orange segments and halved strawberries. It's a very colorful salad, and if you want to be "fancy" you can notch the melon edges and add a strawberry leaf or two for color-effect. Another good fruit combination is orange-slices, halved berries and a topping of lemon sherbet.

And here are some more recipes that you may want to try and then add to your collection.

Strawberry Mounds

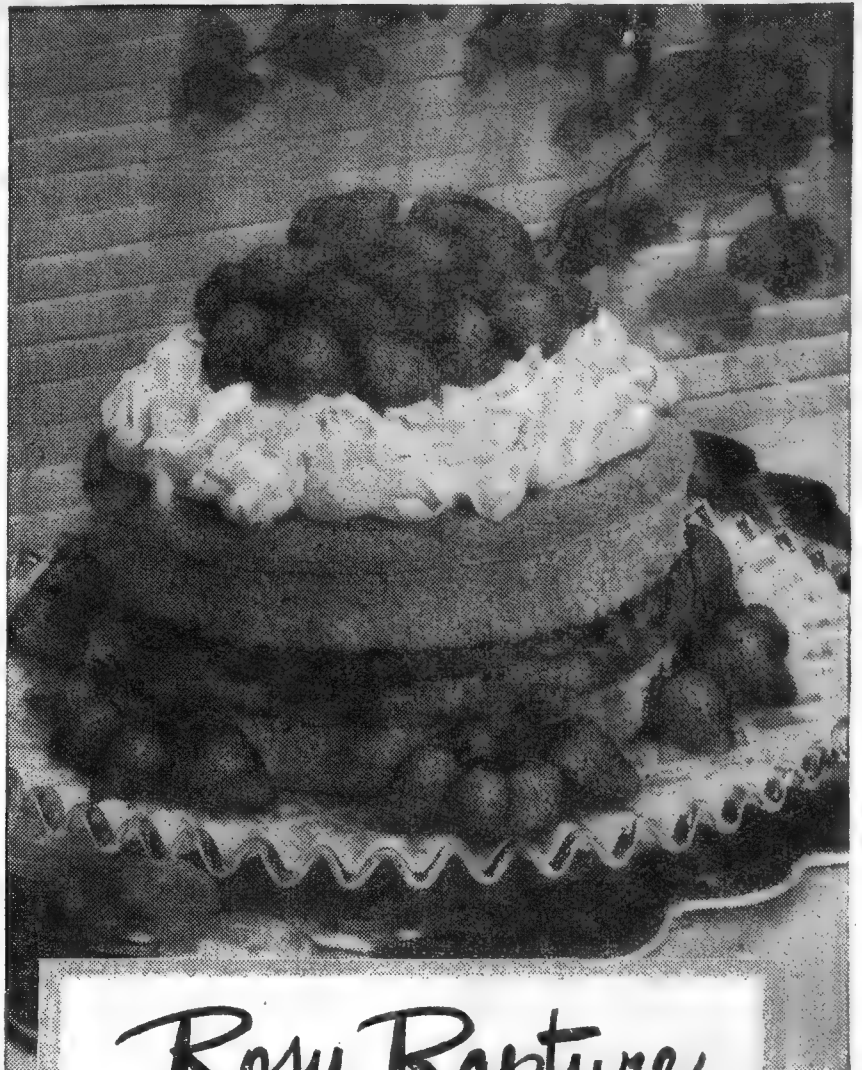
- ¼ cup shortening
- ¼ cup sugar
- ½ cup light corn syrup
- 1 egg, beaten
- 1¼ cups enriched flour
- 2 tsps. baking powder
- ½ tsp. salt
- ¼ cup milk
- 1 tsp. vanilla
- 1 cup strawberries
- 2 tblsps. light syrup

Cream shortening and sugar until fluffy, add syrup; mix, then egg and beat till creamy. Sift dry ingredients and add alternately to creamed mixture, with milk. Mix, add vanilla. Place strawberries in greased individual baking dishes or custard cups, drizzle each with 1 tsp. light corn syrup, then spread batter over berries. Bake in 350° F. oven about 40 minutes, turn out of dishes and serve warm with cream — plain or whipped.

Strawberry Mousse

- 1 quart fresh strawberries
- 1 cup sugar
- 1 cup whipping cream

Hull, wash and cut berries into thin slices then add sugar and heat until sugar is dissolved. Cool, and fold in the stiffly whipped cream, then freeze. This is very simple and the children of the family will greatly enjoy making this mousse.



Rosy Rapture

Magic's Luscious STRAWBERRY CAKE!

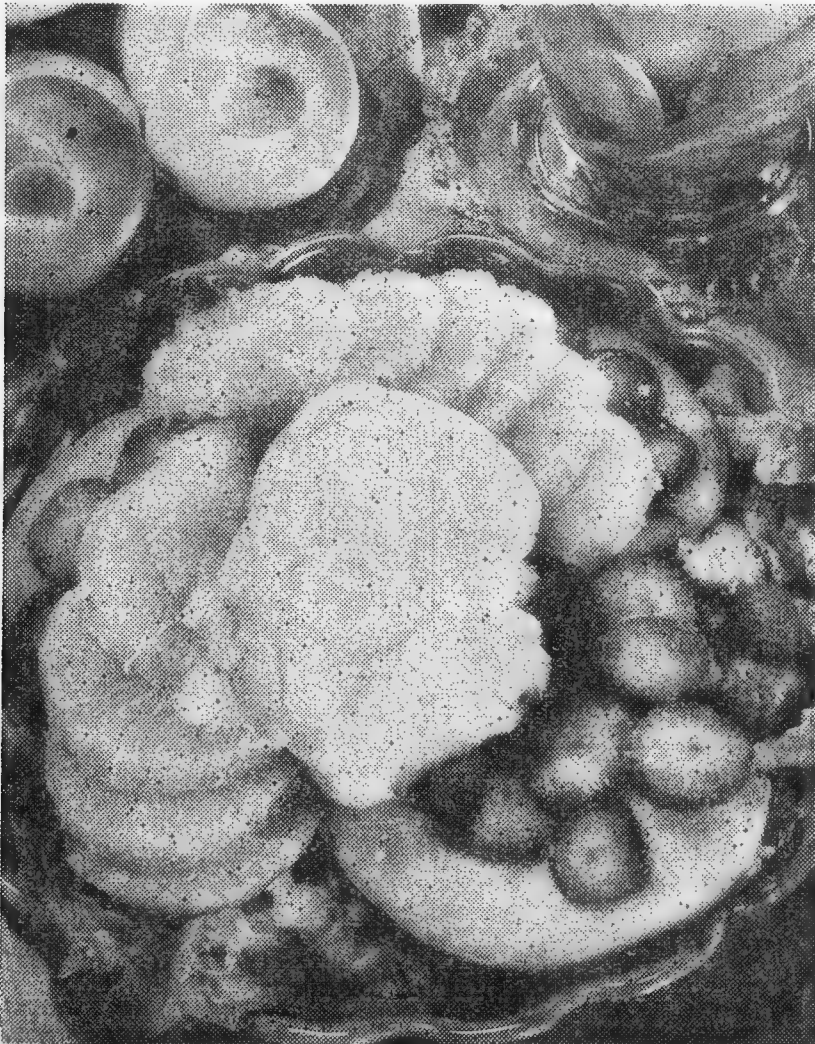
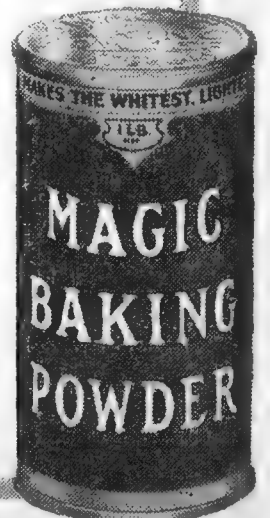
Set up your own strawberry festival—gala in the garden or regal at the table! Grace it with this gorgeous new Magic cake! With big, ripe berries in a cool drift of whipped cream on top. And the filling—a luscious red layer of crushed strawberries . . . overflowing a cake so marvellously light it *must* be made with Magic!

Yes, with Magic Baking Powder, there's no trick to turning out *perfect* cakes—delicate in flavor, light as a puff! Magic costs less than 1¢ per average baking—protects other costly ingredients. Put Magic on your grocery list today.

MAGIC STRAWBERRY CAKE

- | | |
|------------------------------------|-----------------------------|
| 1½ cups sifted pastry flour | ½ tsp. salt |
| or 1½ cups sifted hard-wheat flour | 4 eggs, separated |
| 2 tsps. Magic Baking Powder | ¼ cup cold water |
| | 1 cup fine granulated sugar |
| | 1½ tsps. vanilla |

Sift flour, Magic Baking Powder and salt together 3 times. Beat egg yolks thick and light; gradually beat in the cold water and ¾ cup of the sugar; beat constantly for 4 minutes. Beat egg whites until stiff but not dry; gradually beat in remaining ¼ cup sugar, beating after each addition until mixture stands in peaks. Add flour mixture to yolk mixture about a quarter at a time, folding lightly after each addition just until flour is incorporated; fold in vanilla. Add meringue to yolk mixture and fold gently until combined. Turn into two ungreased 8" round cake pans. Bake in moderate oven, 350°, 25 to 30 minutes. Immediately cakes are baked, invert pans and allow cakes to hang, suspended, until cold (to "hang" cakes, rest rim of inverted pan on 3 inverted egg cups or coffee cups). Put cold cakes together with sweetened crushed strawberries; top with lightly-sweetened and flavored whipped cream and garnish with whole strawberries.



Oranges, strawberries and lemon sherbet atopping the salad need not have greens beneath if you use a bright plate and lettuce is "high".

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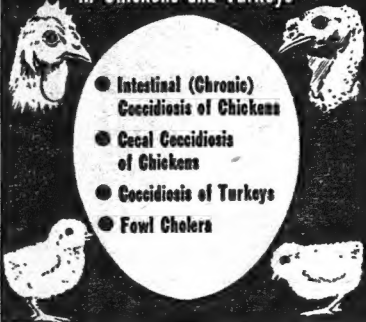
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Our depleted prairie pastures can be restored by re-seeding

By WILLIAM A. HUBBARD,

Range Experiment Station, Manyberries

THOUSANDS of acres of range lands in Western Canada are in such a depleted condition that they may require from 20 to 25 years to recover unless good management and reseedling practices are adopted. At the present time much of the ranching areas will only support 10 head of stock to the section, producing approximately 6,400 pounds of beef, but if a reseedling program is adopted, it is possible that these figures might be doubled.

Grasses for the Canadian Prairies must be able to exist on 12 inches of precipitation or less, with over 50 per cent falling during the growing season of April, May, June and July. Grasses for this area must be drought resistant and be able to withstand low winter temperatures, conditions which definitely limit the number of suitable species available to the grasses and the wheatgrasses.

At the Manyberries Station it has been found that Desert wheatgrass is superior to Fairway in its ability to withstand

drought, but tests show that any type of wheatgrass provides the best spring pasture. The growth habits of Western wheatgrass make it suitable for late spring and summer pasture, and the Kamloops strain has been found superior to the common strain at Manyberries. Under certain conditions such as salinity, fall wheatgrass has proved satisfactory.

Intermediate wheatgrass, northern wheatgrass and streambank wheatgrass are others of the wheatgrass family that show promise. Siberian and Desert wheatgrass are both similar to crested wheatgrass, but appear to be a little more drought resistant. Russian wild rye shows great promise for summer and winter use according to work done at the Archer Field Station, Wyoming.

Very little seed is at present available except for the common species, but as soon as a new species or strain has proved itself, every effort will be made to increase it so it can be made available to all.

Another Co-op farm at Carrot River

REGINA. — Incorporation of the Willowdale Co-operative Farm brings to seven the number of co-operative farms organized by veterans on the Carrot River project, it was announced by Harold Chapman, director of extension services in the Saskatchewan department of co-operation.

The 10 members of this new co-op farm will lease 3,200

acres of Crown land and will be eligible for a grant of \$2,320 each under the Veteran's Land Act. They will pool this money to purchase machinery needed to operate and further improve the land.

In the spring of 1949 they attended a five-day co-operative farming school at Saskatoon. For the past year they have been working together on the Saskatchewan government clearing and breaking project at Carrot River. After going to the Carrot River area they formed a study group which now has organized the co-operative farm.

There now are 77 veterans on the seven co-operative farms in the Carrot River project, leasing 24,640 acres, of which about 8,000 acres are under cultivation. Under the terms of their 33-year lease they pay as rent one-seventh of the crop grown, plus taxes. After 10 years they have the option of buying the land.

The land in the project, owned by the Saskatchewan Government, is located about 25 miles east of the town of Carrot River. This area was formerly a part of the Pasquia Hills forest reserve.

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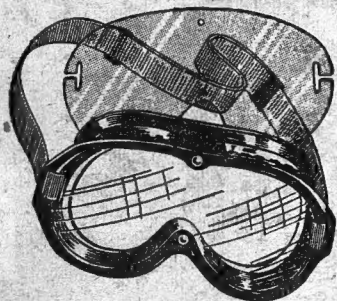
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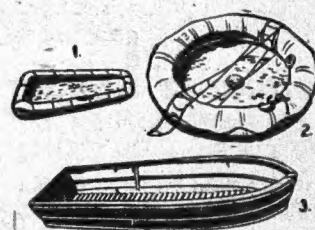


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700x16	6	27.15	
600x16	6	29.30	

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600x16	4	13.40	
450/500x20	6	11.95	
700x16	6	27.75	

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650x16	4	19.30	
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750x20	10	63.40	
825x20	10	68.20	
900x20	10	87.10	8.85

ROAD GRIP

700x20	10	\$52.60	
750x20	10	65.00	
825x20	10	71.70	
900x20	12	112.75	
700x17	6	34.10	

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900x20	10	\$91.50	
700x17	8	39.35	4.30
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600x20	8	27.85	3.25
650x20	6	32.15	3.90

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825x10	10	\$69.95	\$7.75
600x16	6	28.85	
650x16	6	30.60	3.25
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Size	Ply	Tire Price	Tube Price
7.50 x 16	4	18.30	3.50
7.50 x 18	4	19.65	3.65

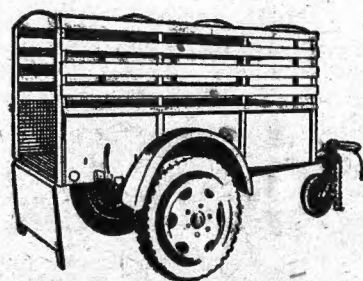
Rear TRACTOR TIRES and Tubes

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10 x 28	4	\$44.15	\$7.85
10 x 38	4	56.70	9.75
11 x 28	4	50.45	9.55
12 x 24	4	50.80	10.15
11 x 38	6	73.90	11.70
12 x 38	6	79.10	14.30

Size	Ply	Tire Price	Tube Price
13 x 24	6	\$68.50	
13 x 26	6	69.80	12.60
13 x 28	6	74.80	11.05
14 x 24	6	83.20	12.00
14 x 28	6	91.80	14.75
14 x 30	6	101.60	18.95
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Ribtor Price, each **\$36.50**
900 x 13 HD Diamond Tread. New, but surplus stock. Reg. Wholesale Price \$62.50.
Ribtor Price **\$47.50**

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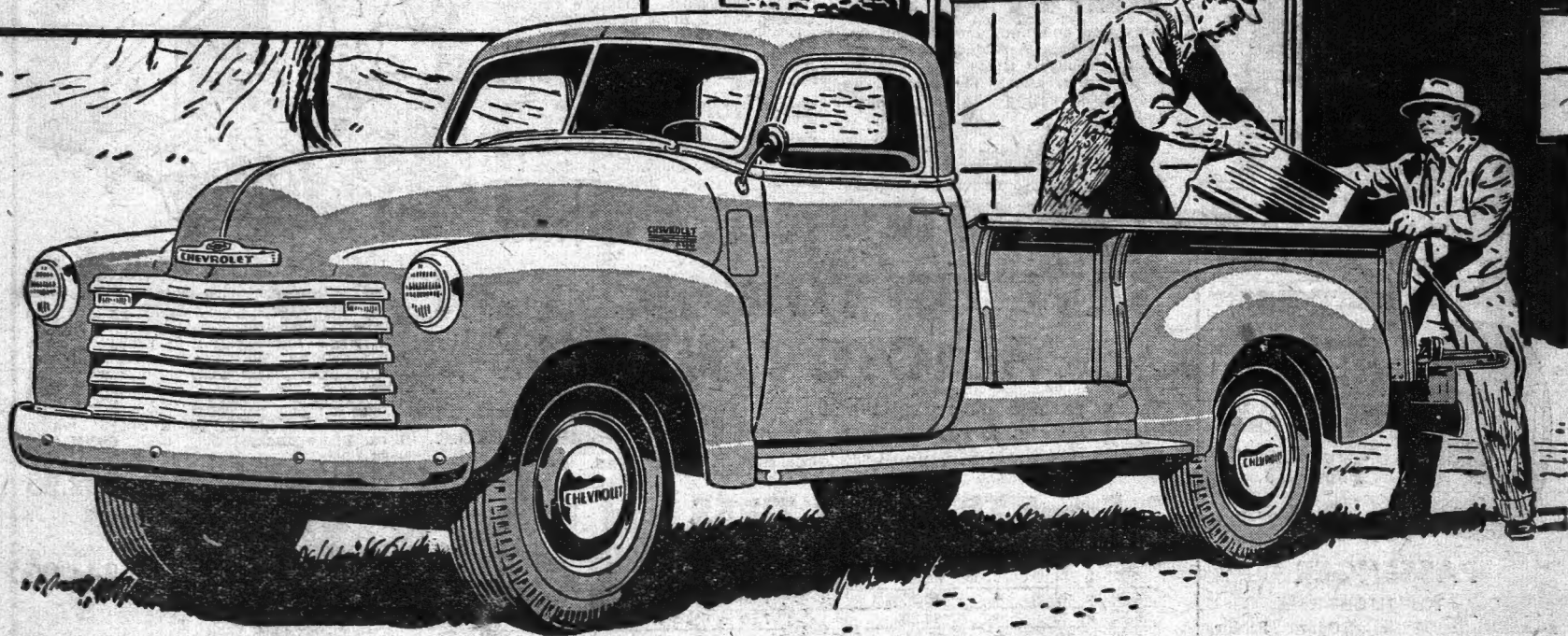
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From low selling price to high resale value, you're money ahead with Chevrolet trucks. Chevrolet's rock-bottom initial cost—outstandingly low cost of operation and upkeep—and high trade-in value, all add up to the lowest price for you.

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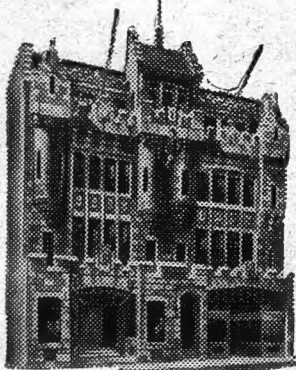
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Our prosperity is based on our ability to sell our products to other countries. Every Canadian has a personal stake in foreign trade, for one out of every three dollars of Canada's national income results from our trade abroad. The more

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